

## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
AT	1998-Aug-26	01130297.3	2002-Apr-10	EP 1195740	2017-Nov-22	1195740	2018-Aug-26	
AT	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03	
AT	2000-Nov-20	05076817.5	2005-Dec-28	EP 1610593	2015-Jul-08	1610593	2020-Nov-20	
AT	2000-Dec-01	00126262.5	2001-Jun-13	EP 1106914	2002-Sep-11	E224032	2020-Dec-01	
AT	2000-Dec-01	01123199.0	2002-Jan-30	EP 1176362	2004-Dec-01	1176362	2020-Dec-01	
AT	2001-Jan-08	01907413.7			2006-Jun-14	E330448	2021-Jan-08	
AT	2001-Apr-24	07075990.7	2008-Feb-13	EP 1887836	2012-Mar-07	E548887	2021-Apr-24	
AT	2001-Apr-24	03028671.0			2010-Apr-14	E 464771	2021-Apr-24	
AT	2001-Aug-31	01120981.4	2002-Mar-06	EP 1183964	2003-Nov-05	E253314	2021-Aug-31	
AT	2001-Oct-25	01997118.3			2009-Jun-17	E434152	2021-Oct-25	
AT	2001-Dec-20	01994819.9		EP 1399692	2008-Nov-05	1399692	2021-Dec-20	
AT	2002-Jun-21	02738518.6			2008-Dec-10	E 417490	2022-Jun-21	
AT	2002-Jul-18	02751538.6			2006-May-17	E 326826	2022-Jul-18	
AT	2002-Jul-18	02751537.8			2006-May-24	E327654	2022-Jul-18	
AT	2003-Aug-28	03791823.2			2010-Jan-13	E455451	2023-Aug-28	
AT	2003-Dec-11	03813686.7	2005-Sep-28	EP 1579735	2016-Mar-09	1579735	2023-Dec-11	
AT	2003-Dec-11	15174964.5	2016-Jan-06	EP 2964000	2022-Oct-05	2964000	2023-Dec-11	
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AT	2005-Sep-19	05783602.5	2007-Jul-11	EP 1805452	2014-Apr-23	1805452	2025-Sep-19	
AT	2005-Dec-02	05815525.0			2017-Oct-04	1842399	2025-Dec-02	
AT	2006-Jan-05	06701369.8	2007-Oct-24	EP 1846949	2018-Aug-22	1846949	2026-Jan-05	
AT	2006-Mar-08	06711045.2			2008-Dec-31	E419731	2026-Mar-08	Yes
AT	2006-Apr-03	06716702.3	2007-Nov-29	EP 1869365	2013-Jun-12	1869365	2026-Apr-03	
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AT	2006-May-24	06765708.0		EP 1889519	2009-Mar-18	1889519	2026-May-24	
AT	2006-Sep-15	06775996.9	2008-Jul-02	EP 1938666	2012-May-30	1938666	2026-Sep-15	
AT	2006-Oct-11	14166066.2	2014-Sep-17	EP 2779146	2017-Jul-26	2779146	2026-Oct-11	
AT	2006-Oct-11	06812715.8		EP 1938298	2012-Jun-13	1938298	2026-Oct-11	
AT	2006-Oct-11	11173044.6	2011-Nov-30	EP 2390866	2016-Sep-28	2390866	2026-Oct-11	
AT	2006-Dec-13	06842469.6	2008-Sep-10	EP 1966624	2011-Jun-29	E 514958	2026-Dec-13	
AT	2006-Dec-13	11155525.6	2011-May-25	EP 2325670	2017-Oct-25	2325670	2026-Dec-13	
AT	2007-Mar-02	07713186.0	2008-Dec-03	EP 1997352	2018-Oct-24	1997352	2027-Mar-02	
AT	2007-May-31	15177099.7	2016-Apr-27	EP 3013124	2017-Jul-12	3013124	2027-May-31	
AT	2007-May-31	15177109.4	2016-Mar-23	EP 2999314	2020-Nov-18	2999314	2027-May-31	
AT	2007-Nov-06	07826984.2			2010-Jul-28	E476087	2027-Nov-06	
AT	2007-Nov-27	07862228.9			2011-Mar-02	E 500469	2027-Nov-27	
AT	2008-Mar-12	08743813.1			2018-Aug-01	2135487	2028-Mar-12	
AT	2008-Mar-14	18192950.6			2020-Aug-05	3445021	2028-Mar-14	Yes
AT	2008-Apr-04	08737714.9			2010-Oct-06	E 483939	2028-Apr-04	
AT	2008-May-01	14195242.4	2015-Apr-22	EP 2863104	2019-Jul-10	2863104	2028-May-01	
AT	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-02	
AT	2009-Nov-03	09759792.6	2011-Jul-27	EP 2347172	2020-Jan-22	2347172	2029-Nov-03	
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AT	2010-Feb-26	10708388.3	2012-Jan-11	EP 2404485	2020-May-20	2404485	2030-Feb-26	Yes
AT	2010-Jun-11	10730223.4	2012-Apr-25	EP 2443387	2016-Mar-02	2443387	2030-Jun-11	
AT	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
AT	2011-Feb-28	11713358.7	2013-Jan-09	EP 2542826	2018-Oct-24	2542826	2031-Feb-28	
AT	2011-Apr-13	11714280.2		EP 2567149	2015-Jul-08	2567149	2031-Apr-13	Yes
AT	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
AT	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-19	Yes
AT	2011-Nov-16	11794283.9			2019-Jan-09	2681969	2031-Nov-16	
AT	2011-Nov-22	11793494.3	2013-Oct-09	EP 2647260	2019-Aug-21	2647260	2031-Nov-22	
AT	2011-Dec-09	11804814.9	2013-Oct-30	EP 2655956	2020-Jul-29	2655956	2031-Dec-09	
AT	2012-Jan-20	EP 12737154.0	2013-Nov-27	EP 2666220	2019-Sep-18	2666220	2032-Jan-20	Yes
AT	2012-Mar-15	12711261.3	2014-Jan-29	EP 2689182	2020-May-20	2689182	2032-Mar-15	Yes
AT	2012-Mar-23	12712763.7	2014-Feb-05	EP 2692211	2019-Aug-14	2692211	2032-Mar-23	
AT	2012-May-31	12727711.9	2014-Apr-23	2721341	2018-Apr-18	2721341	2032-May-31	Yes
AT	2012-Jun-15	12735032.0	2014-Apr-23	EP 2721656	2019-Sep-25	2721656	2032-Jun-15	Yes
AT	2012-Jun-29	12737399.1			2019-Feb-13	2727228	2032-Jun-29	Yes
AT	2012-Aug-02	12772433.4	2014-Jun-25	EP 2745621	2020-Oct-21	2745621	2032-Aug-02	
AT	2012-Aug-30	12759831.6	2014-Jul-09	EP 2751477	2018-Apr-25	2751477	2032-Aug-30	Yes
AT	2013-Jan-30	16200531.8	2017-Jun-17	EP 3182807	2020-Aug-12	3182807	2033-Jan-30	Yes
AT	2013-Feb-22	13717316.7	2014-Dec-17	EP 2823691	2019-Apr-10	2823691	2033-Feb-22	
AT	2013-Apr-04	18167770.9	2018-Oct-03	EP 3382755	2020-Jan-08	3382755	2033-Apr-04	
AT	2013-Oct-17	13818799.2	2015-Sep-02	EP 2912367	2018-Jan-03	2912367	2033-Oct-17	Yes
AT	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
AT	2014-Jul-09	14738810.2	2016-Jun-08	EP	2017-Feb-22	3028541	2034-Jul-09	
AT	2014-Aug-19	14786281.7	2016-Jun-29	EP 3036976	2019-Oct-09	3036976	2034-Aug-19	
AT	2014-Aug-19	19172206.5	2019-Oct-16	EP 3554198	2021-Apr-07	3554198	2034-Aug-19	
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AT	2015-Jan-21	15701166.9	2016-Dec-07	EP	2022-Dec-21	3099972	2035-Jan-21	Yes
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AT	2015-Feb-16	15711291.3	2017-Jan-04	EP	2020-Jan-01	3111729	2035-Feb-16	
AT	2015-Mar-11	16190614.4	2017-May-10	3165809-A	2021-Sep-29	3165809	2035-Mar-11	Yes
AT	2015-May-27	15726916.8	2017-Apr-19	3155875-A	2017-Dec-27	3155875	2035-May-27	Yes
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AT	2015-Jun-08	15725683.5	2016-Aug-17	EP	2017-Apr-05	3056066	2035-Jun-08	
AT	2016-Mar-07	16158975.9			2020-Dec-16	3065510	2036-Mar-07	Yes
AT	2016-Aug-05	18154729.0	2018-Jul-25	EP 3351851	2019-Oct-09	3351851	2036-Aug-05	
AT	2017-Mar-20	17710760.4	2019-Jan-30	EP 3434074	2020-May-06	3434074	2037-Mar-20	Yes
AT	2017-Aug-04	17837750.3	2019-Jun-12	EP3494342	2021-Dec-08	3494342	2037-Aug-04	Yes

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AT	2017-Dec-18	17816839.9	2019-Jun-26	EP 3500792	2020-Feb-12	3500792	2037-Dec-18	
AU	1998-Aug-26	2003203584			2006-Jul-13	2003203584	2018-Aug-26	
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AU	2012-Feb-28	2012223464	2012-Sep-07	WO/2012/118828	2015-Nov-12	2012223464	2032-Feb-28	
AU	2013-Nov-06	2013341225	2014-May-15	WO/2014/074618	2018-Jan-11	2013341225	2033-Nov-06	
AU	2017-Aug-04	2017306706			2021-Jun-10	2017306706	2037-Aug-04	Yes
BE	1998-Jan-22	98900141.7	1999-Jan-13	EP 0890059	2004-Jun-23	0890059	2018-Jan-22	
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BE	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03	
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BE	2010-Feb-26	10708388.3	2012-Jan-11	EP 2404485	2020-May-20	2404485	2030-Feb-26	Yes
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BE	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
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BE	2013-Jan-02	13703878.2	2014-Aug-06	EP 2761978	2016-Apr-06	2761978	2033-Jan-02	
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BE	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
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BR	2010-Apr-01	PI 1007735-9	2016-Dec-27	PI 1007735-9-A2	2021-Feb-17	PI 1007735-9	2031-Feb-17	
BR	2010-May-31	PI 1008194-1			2020-Oct-20	PI 1008194-1	2030-Oct-20	Yes
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## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
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CA	2018-Apr-27	3061336			2023-Mar-07	3061336	2038-Apr-27	Yes
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CH	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03	
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CH	2002-Jun-21	02738518.6		EP 1405551	2008-Dec-10	1405551	2022-Jun-21	
CH	2003-Aug-28	03791823.2		EP 1535495	2010-Jan-13	1535495	2023-Aug-28	
CH	2004-Apr-21	18182693.4	2018-Dec-26	EP 3419388	2020-Jun-17	3419388	2024-Apr-21	
CH	2004-Apr-21	20172248.5	2020-Oct-14	EP 3722533	2022-Oct-26	3722533	2024-Apr-21	
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CH	2007-Nov-27	07862228.9	2009-Aug-19	EP 2089656	2011-Mar-02	2089656	2027-Nov-27	
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CH	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
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CH	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-19	Yes
CH	2011-Nov-16	11794283.9		EP 2681969	2019-Jan-09	2681969	2031-Nov-16	
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CH	2012-May-31	12727711.9	2014-Apr-23	2721341	2018-Apr-18	2721341	2032-May-31	Yes
CH	2012-Jun-29	12737399.1		EP 2727228	2019-Feb-13	2727228	2032-Jun-29	Yes
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CH	2013-Feb-22	13717316.7	2014-Dec-17	EP 2823691	2019-Apr-10	2823691	2033-Feb-22	
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CH	2014-Oct-08	EP14786822.8	2016-Aug-17	EP 3055022	2018-Aug-08	3055022	2034-Oct-08	Yes

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List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
CH	2014-Oct-28	14904216.0	2016-Aug-10	EP 3053413	2019-Feb-13	3053413	2034-Oct-28	
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CN	2000-Nov-17	00803336.6	2002-Jun-26	CN 1355936	2005-Nov-16	00803336.6	2020-Nov-17	
CN	2000-Dec-14	00807271.X	2002-May-22	CN 1350683	2006-Apr-19	00807271.X	2020-Dec-14	
CN	2000-Dec-18	00804656.5	2002-Apr-03	CN 1343289	2006-Nov-22	00804656.5	2020-Dec-18	
CN	2001-Jan-08	01800162.9	2002-Aug-07	CN 1363198	2005-May-11	01800162.9	2021-Jan-08	
CN	2001-Aug-19	01135741.X	2002-Mar-13	CN 1339664	2005-Jul-20	01135741.X	2021-Aug-19	
CN	2001-Sep-05	01802758.X	2003-Jan-22	CN 1393118	2006-Aug-09	01802758.X	2021-Sep-05	
CN	2001-Nov-09	01806195.8	2003-Aug-13	CN 1436438	2007-May-30	01806195.8	2021-Nov-09	
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CN	2001-Dec-03	01807029.9	2003-May-21	CN 1419797	2007-May-30	01807029.9	2021-Dec-03	
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CN	2001-Dec-12	01805639.3	2003-Mar-26	CN 1406450	2008-Jun-04	01805639.3	2021-Dec-12	
CN	2002-Jan-19	02106469.5	2002-Sep-25	CN 1370950	2006-Apr-12	02106469.5	2022-Jan-19	
CN	2002-Mar-14	02800705.0	2003-Nov-26	CN 1459216	2008-Feb-06	02800705.0	2022-Mar-14	
CN	2002-Mar-19	02800893.6	2003-Dec-03	CN 1460393	2009-May-20	02800893.6	2022-Mar-19	
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CN	2002-Jun-21	02813396.X	2004-Aug-18	CN 1522555	2008-Jun-04	02813396.X	2022-Jun-21	
CN	2002-Jul-23	02802991.7	2005-Jul-06	CN 1636280	2008-Apr-23	02802991.7	2022-Jul-23	
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CN	2002-Sep-30	02819551.5	2005-Jan-12	CN 1565147	2008-Jul-16	02819551.5	2022-Sep-30	
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CN	2002-Dec-20	02826433.9	2006-Apr-05	CN 1757267	2010-Jan-27	02826433.9	2022-Dec-20	
CN	2003-Feb-06	03803878.1	2005-Jun-29	CN 1633827	2009-Apr-08	03803878.1	2023-Feb-06	
CN	2003-Jun-12	200910165991.8	2010-Jul-14	CN 101776220	2012-Apr-11	ZL200910165991.8	2023-Jun-12	
CN	2003-Jun-12	03814939.7	2005-Aug-31	CN 1663323	2010-Jun-23	03814939.7	2023-Jun-12	
CN	2003-Sep-01	03820882.2	2005-Oct-05	CN 1679376	2010-Jun-16	03820882.2	2023-Aug-31	Yes
CN	2003-Nov-11	200380104180.8	2006-Jan-04	CN 1717958	2008-Dec-03	200380104180.8	2023-Nov-10	
CN	2003-Dec-08	200380106353.X	2006-Jan-25	CN 1726742	2009-Oct-28	200380106353.X	2023-Dec-07	Yes
CN	2003-Dec-11	200380106654.2	2006-Feb-01	CN 1729722	2010-Jun-09	200380106654.2	2023-Dec-10	
CN	2003-Dec-11	200380106660.8	2006-Mar-08	CN 1745603	2009-Nov-04	200380106660.8	2023-Dec-10	
CN	2003-Dec-18	200380107539.7	2006-Feb-08	CN 1732717	2009-May-27	200380107539.7	2023-Dec-17	
CN	2004-Jan-06	200480002217.0	2006-Feb-22	CN 1732614	2007-Dec-26	100358309	2024-Jan-05	Yes
CN	2004-Apr-21	201210470710.1	2013-Apr-03	CN 103017017	2019-May-14	201210470710.1	2024-Apr-20	
CN	2004-Apr-22	200480012275.1	2006-Jun-07	CN 1784931	2014-Jun-18	200480012275.1	2024-Apr-21	
CN	2004-Apr-22	200480012309.7	2006-Jun-07	CN 1784932	2011-Sep-28	200480012309.7	2024-Apr-21	
CN	2004-Apr-30	200480012040.2	2006-Jun-07	CN 1784930	2009-Aug-19	200480012040.2	2024-Apr-29	
CN	2004-Jun-10	200480016172.2	2004-Dec-23	CN1806145	2010-Jun-23	200480016172.2	2024-Jun-09	
CN	2004-Aug-03	200480023236.1	2006-Sep-20	CN 1836406			2024-Aug-03	Yes
CN	2004-Aug-20	200480024713.6	2006-Oct-04	CN 1843004	2012-Jan-11	200480024713.6	2024-Aug-19	Yes
CN	2004-Sep-01	200480025386.6	2006-Oct-11	CN 1846459	2009-Sep-09	200480025386.6	2024-Aug-31	
CN	2004-Sep-07	200480025822.X	2006-Oct-18	CN 1849707	2008-Sep-03	200480025822.X	2024-Sep-06	
CN	2004-Sep-21	200480027802.6	2006-Nov-01	CN 1856815	2009-Apr-29	200480027802.6	2024-Sep-20	
CN	2004-Dec-01	200480037576.X	2007-Jan-10	CN 1894839	2009-Dec-30	200480037576.X	2024-Nov-30	Yes
CN	2004-Dec-03	200480038276.3	2007-Jan-17	CN 1898853	2010-Jun-09	200480038276.3	2024-Dec-02	Yes
CN	2005-Jan-27	200580004595.7	2007-Feb-21	CN 1918494	2008-Sep-03	100416317	2025-Jan-26	Yes
CN	2005-Mar-02	200580008748.5	2007-Aug-22	CN 101023632	2010-Nov-03	200580008748.5	2025-Mar-01	Yes
CN	2005-Mar-23	200580011303.2	2007-Apr-04	CN 1942701	2010-May-05	200580011303.2	2025-Mar-22	
CN	2005-Apr-27	200580014515.6	2007-Apr-18	CN 1951157	2011-Feb-02	200580014515.6	2025-Apr-26	
CN	2005-May-02	200580014299.5	2007-Apr-18	CN 1950791	2009-Sep-09	200580014299.5	2025-May-01	
CN	2005-Jun-03	200580018028.7	2007-May-09	CN 1961614	2009-Oct-14	200580018028.7	2025-Jun-02	
CN	2005-Jun-23	201210567962.6	2013-May-15	CN 103104837			2025-Jun-23	
CN	2005-Jun-23	200580028760.2	2007-Aug-01	CN 101010649	2013-Oct-30	200580028760.2	2025-Jun-22	
CN	2005-Jun-23	200580021892.2	2007-Jun-06	CN 1977125			2025-Jun-23	
CN	2005-Jun-28	201110041331.6	2011-May-18	CN 102065618			2025-Jun-28	
CN	2005-Jul-14	200580024425.5	2007-Jun-27	CN 1989792	2013-Sep-11	200580024425.5	2025-Jul-13	
CN	2005-Aug-02	200580026660.6	2007-Jul-04	CN 1993840	2009-Aug-19	200580026660.6	2025-Aug-01	
CN	2005-Aug-02	200580026646.6	2007-Jul-04	CN 1993581	2009-Jul-08	200580026646.6	2025-Aug-01	
CN	2005-Aug-02	200580026656.X	2007-Jul-04	CN 1993826	2010-Jun-23	200580026656.X	2025-Aug-01	
CN	2005-Aug-18	200580032413.7	2007-Aug-29	CN 101027599	2009-Sep-23	200580032413.7	2025-Aug-17	
CN	2005-Aug-18	200580032526.7	2007-Aug-29	CN 101027794	2009-Dec-02	200580032526.7	2025-Aug-17	
CN	2005-Aug-31	200580029947.4	2007-Aug-08	CN 101015173	2013-Jun-19	200580029947.4	2025-Aug-31	Yes
CN	2005-Sep-12	200580031647.X	2007-Aug-22	CN 101023296	2010-Jan-27	200580031647.X	2025-Sep-11	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
CN	2005-Sep-19	200580033142.7	2008-Jan-16	CN 101107474	2009-Jul-29	200580033142.7	2025-Sep-18	
CN	2005-Sep-20	200580033788.5	2007-Sep-12	CN 101036106	2010-Jun-02	200580033788.5	2025-Sep-19	
CN	2005-Oct-12	200580040566.6	2008-Feb-20	CN 101128979	2011-Oct-19	200580040566.6	2025-Oct-11	
CN	2005-Oct-17	200580036314.6	2007-Oct-03	CN 101049047	2009-Aug-19	200580036314.6	2025-Oct-16	
CN	2005-Oct-26	200580037105.3	2007-Oct-03	CN 101049048	2009-Oct-14	200580037105.3	2025-Oct-25	
CN	2005-Nov-09	200580039474.6	2007-Oct-31	CN 101065850	2009-Jan-07	200580039474.6	2025-Nov-08	
CN	2005-Nov-24	200580040875.3	2007-Oct-31	CN 101065997	2013-Jan-30	200580040875.3	2025-Nov-23	
CN	2005-Nov-28	200580041872.1	2007-Nov-14	CN 101073155	2010-Sep-29	200580041872.1	2025-Nov-27	
CN	2005-Dec-02	200580043765.2	2008-Jan-16	CN 101107885	2011-Oct-12	200580043765.2	2025-Dec-01	
CN	2005-Dec-05	200580042337.8	2007-Nov-14	CN 101073292			2025-Dec-05	Yes
CN	2006-Mar-08	200680007844.2	2008-Mar-05	CN 101138279	2012-Mar-21	200680007844.2	2026-Mar-07	Yes
CN	2006-Mar-22	200680015601.3	2008-Jul-09	CN 101218856	2012-Feb-29	200680015601.3	2026-Mar-21	Yes
CN	2006-Apr-03	200680019064.X	2008-Jul-23	CN 101228393	2010-Nov-10	200680019064.X	2026-Apr-02	
CN	2006-Apr-19	200680014386.5	2008-Apr-23	CN 101167408	2009-Sep-23	200680014386.5	2026-Apr-18	
CN	2006-May-10	200680017903.4	2008-May-14	CN 101180563	2009-Oct-28	200680017903.4	2026-May-09	
CN	2006-May-11	200680018430.X	2008-May-21	CN 101185375	2010-Jun-16	200680018430.X	2026-May-10	
CN	2006-May-24	200680017970.6	2008-May-14	CN 101180921	2009-Oct-14	200680017970.6	2026-May-23	
CN	2006-Jun-15	201510967519.1	2016-Apr-13	105490898.A	2020-Jan-31	201510967519.1	2026-Jun-14	Yes
CN	2006-Jun-15	200680022831.2	2008-Jun-25	CN 101208933			2026-Jun-15	Yes
CN	2006-Jul-05	200680025524.X	2008-Jul-16	CN 1012223823	2010-May-19	200680025524.X	2026-Jul-04	
CN	2006-Aug-15	200680030671.6	2008-Aug-20	CN 101248378	2011-Mar-09	200680030671.6	2026-Aug-14	Yes
CN	2006-Aug-22	200680031269.X	2008-Aug-27	CN 101253813	2010-Dec-08	200680031269.X	2026-Aug-21	
CN	2006-Sep-15	200680036031.6	2008-Oct-01	CN 101278397	2009-Dec-02	200680036031.6	2026-Sep-14	
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CN	2006-Oct-16	200680039894.9			2010-Jun-09	200680039894.9	2026-Oct-15	
CN	2006-Oct-24	200680040171.0	2008-Oct-29	CN 101297153	2012-Jul-04	200680040171.0	2026-Oct-23	
CN	2006-Nov-07	200680041863.7	2008-Nov-12	CN 101305242	2013-Apr-03	200680041863.7	2026-Nov-06	
CN	2006-Nov-13	200680042799.4	2008-Nov-19	CN 101310142	2013-Jan-02	200680042799.4	2026-Nov-12	
CN	2006-Nov-20	200680043725.2	2008-Nov-26	CN 101313171	2010-May-19	200680043725.2	2026-Nov-19	
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CN	2006-Dec-06	200680046928.7	2008-Dec-24	CN 101331802	2016-Oct-12	200680046928.7	2026-Dec-05	
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CN	2007-Jan-26	200780004173.9	2009-Mar-04	CN 101379879	2011-Aug-17	200780004173.9	2027-Jan-25	
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CN	2007-Mar-02	200780008173.6	2009-Mar-25	CN 101395791	2012-Jul-04	200780008173.6	2027-Mar-01	
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CN	2007-Mar-08	200780009333.9	2009-Apr-08	CN 101406106	2011-Apr-13	200780009333.9	2027-Mar-07	Yes
CN	2007-Mar-12	200780009301.9	2009-Apr-08	CN 101406105	2010-Nov-10	200780009301.9	2027-Mar-11	
CN	2007-Apr-20	200780016059.8	2009-May-20	CN 101438625	2011-Sep-07	200780016059.8	2027-Apr-19	
CN	2007-May-02	200780017134.2	2009-May-27	CN 101444144	2013-Nov-06	200780017134.2	2027-May-01	
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CN	2007-Jun-19	200780024585.9	2009-Jul-08	CN 101479995	2012-Aug-08	200780024585.9	2027-Jun-18	
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CN	2007-Jun-22	200780024126.0	2009-Jul-08	CN 101480106	2012-Jul-04	200780024126.0	2027-Jun-21	Yes
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CN	2007-Aug-09	200780049308.3	2010-Feb-17	CN 101653041	2013-Oct-23	200780049308.3	2027-Aug-08	
CN	2007-Aug-17	200780030549.3	2009-Aug-12	CN 101506574	2012-Dec-05	200780030549.3	2027-Aug-16	
CN	2007-Aug-22	200780031358.9	2009-Aug-12	CN 101507363	2012-Dec-26	200780031358.9	2027-Aug-21	
CN	2007-Sep-03	200780033950.2	2009-Aug-26	CN 101518153			2027-Sep-03	
CN	2007-Sep-18	200780036117.3	2009-Nov-11	CN 101578704	2012-Jul-18	200780036117.3	2027-Sep-17	
CN	2007-Sep-18	200780036333.8	2009-Sep-02	CN 101523979	2011-May-04	200780036333.8	2027-Sep-17	Yes
CN	2007-Sep-20	200780037138.7	2009-Sep-02	CN 101523981			2027-Sep-20	
CN	2007-Sep-20	200780037394.6	2009-Sep-02	CN 101523982	2012-Mar-14	200780037394.6	2027-Sep-19	
CN	2007-Sep-20	201610287271.9	2016-Sep-07	CN 105934050	2019-Jul-05	201610287271.9	2027-Sep-19	
CN	2007-Sep-20	200780035025.3	2009-Sep-30	CN 101548583			2027-Sep-20	
CN	2007-Oct-11	200780038644.8	2009-Sep-09	CN 101529290	2012-Jul-18	200780038644.8	2027-Oct-10	
CN	2007-Oct-12	200780038530.3	2009-Sep-09	CN 101529157	2011-Apr-06	200780038530.3	2027-Oct-11	
CN	2007-Oct-19	200780038990.6	2009-Nov-25	CN 101589650	2017-Apr-12	200780038990.6	2027-Oct-18	
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CN	2007-Nov-08	200780042537.2	2009-Sep-16	CN 101536610	2013-May-01	200780042537.2	2027-Nov-07	
CN	2007-Nov-09	200780041888.1	2009-Dec-30	CN 101617565	2011-Nov-02	200780041888.1	2027-Nov-08	
CN	2007-Nov-27	200780043933.7	2010-Jan-13	CN 101627253	2011-May-18	200780043933.7	2027-Nov-26	
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CN	2007-Dec-07	200780045408.9	2009-Oct-07	CN 101554094	2013-Dec-04	200780045408.9	2027-Dec-06	
CN	2007-Dec-10	200780046279.5	2009-Oct-14	CN 101558439			2027-Dec-10	
CN	2007-Dec-11	20078004558.8	2009-Oct-28	CN 101569239			2027-Dec-11	
CN	2007-Dec-11	200780045801.8	2009-Oct-14	CN 101558686	2013-Oct-09	200780045801.8	2027-Dec-10	
CN	2007-Dec-12	200780046075.1	2009-Oct-14	CN 101558688			2027-Dec-12	
CN	2007-Dec-14	200780047121.X	2009-Oct-21	CN 101563957	2013-Nov-06	200780047121.X	2027-Dec-13	Yes
CN	2007-Dec-17	200780047557.9			2012-Nov-07	200780047557.9	2027-Dec-16	
CN	2008-Mar-12	201310120809.3			2015-Sep-02	201310120809.3	2028-Mar-11	
CN	2008-Mar-12	200880008270.X			2013-Oct-14	200880008270.X	2028-Mar-11	Yes
CN	2008-Mar-12	200880008301.1			2016-Sep-28	200880008301.1	2028-Mar-11	
CN	2008-Mar-12	201610671816.6	2017-Jan-04	CN 106304474	2018-Oct-30	201610671816.6	2028-Mar-11	
CN	2008-Mar-12	200880008121.3			2013-Apr-10	200880008121.3	2028-Mar-11	
CN	2008-Mar-14	200880010928.0	2010-Feb-17	CN 101652978	2016-Nov-16	200880010928.0	2028-Mar-13	Yes
CN	2008-Mar-19	200880009845.X	2010-Feb-03	CN 101641549			2028-Mar-19	
CN	2008-Mar-31	200880011084.1	2010-Mar-03	CN 101663919	2013-Jul-24	200880011084.1	2028-Mar-30	
CN	2008-Apr-04	200880011268.8	2010-Feb-24	CN 101657678	2014-Feb-26	200880011268.8	2028-Apr-03	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
CN	2008-Apr-04	201410014897.3	2014-May-28	CN 103822172	2017-Jul-28	201410014897.3	2028-Apr-03	
CN	2008-Apr-07	200880011805.9	2010-Feb-24	CN 101657672	2013-Mar-27	200880011805.9	2028-Apr-06	Yes
CN	2008-Apr-11	200880012508.6	2010-Mar-03	CN 101663769	2013-Feb-06	200880012508.6	2028-Apr-10	
CN	2008-Apr-21	200880013685.6	2010-Mar-10	CN 101669404	2012-Mar-28	ZL200880013685.6	2028-Apr-20	
CN	2008-Apr-23	200880013851.2	2010-Mar-10	CN 101669405	2012-Jun-13	200880013851.2	2028-Apr-22	
CN	2008-Apr-23	200880014324.3	2010-Mar-17	CN 101675711	2013-Jan-02	200880014324.3	2028-Apr-22	
CN	2008-Apr-28	200880014646.8	2010-Mar-17	CN 101675712	2015-Nov-25	200880014646.8	2028-Apr-27	
CN	2008-Apr-28	200880014667.X	2010-Mar-17	CN 101675713	2013-Feb-06	200880014667.X	2028-Apr-27	Yes
CN	2008-May-01	200880014392.X	2010-Mar-17	CN 101675288			2028-May-01	
CN	2008-May-01	201510394253.6	2016-Mar-23	105423169-A	2018-Feb-23	201510394253.6	2028-Apr-30	
CN	2008-May-02	200880014787.X	2010-Mar-17	CN 101675290	2012-Dec-26	200880014787.X	2028-May-01	
CN	2008-May-02	200880021634.8	2010-Mar-31	CN 101688652	2012-May-30	200880021634.8	2028-May-01	
CN	2008-May-05	200880015503.9	2010-Mar-24	CN 101681050			2028-May-05	
CN	2008-May-19	200880016872.X	2008-Nov-27	WO 2008/144672	2014-Dec-03	200880016872.X	2028-May-18	
CN	2008-May-22	200880018068.5	2010-Mar-24	CN 101678209			2028-May-22	Yes
CN	2008-May-26	200880018327.4	2010-Mar-24	CN 101681059	2014-Mar-05	200880018327.4	2028-May-25	
CN	2008-May-30	200880019098.8	2010-Mar-24	CN 101681598	2012-Nov-14	200880019098.8	2028-May-29	
CN	2008-Jun-23	200880022375.0	2010-Mar-31	CN 101690396	2012-Dec-26	200880022375.0	2028-Jun-22	
CN	2008-Jun-30	200880023350.2	2010-Mar-31	CN 101690397	2012-Jul-18	200880023350.2	2028-Jun-29	
CN	2008-Jul-21	200880100067.5	2010-Jun-23	CN 101755483	2012-May-30	200880100067.5	2028-Jul-20	
CN	2008-Aug-01	201010271434.7	2011-Jan-26	CN 101958391	2013-Jun-26	201010271434.7	2028-Jul-31	
CN	2008-Aug-01	200880001941.X	2009-Nov-11	CN 101578714	2011-Feb-09	200880001941.X	2028-Jul-31	
CN	2008-Aug-14	200880103749.1	2010-Jul-21	CN 101785362	2013-Mar-27	200880103749.1	2028-Aug-13	
CN	2008-Aug-23	200880104017.4			2015-Sep-09	ZL200880104017.4	2028-Aug-22	
CN	2008-Aug-28	200880105364.9	2010-Aug-04	CN 101795860	2015-Jan-21	200880105364.9	2028-Aug-27	Yes
CN	2008-Sep-16	200880108802.7	2010-Aug-18	CN 101809366	2013-Jan-02	200880108802.7	2028-Sep-15	
CN	2008-Sep-22	200880112539.9	2009-Mar-26	WO 2009/039491	2014-Nov-05	200880112539.9	2028-Sep-21	
CN	2008-Sep-25	2008801049743.X	2010-Mar-31	CN 101686587 A	2015-Jan-28	2008801049743.X	2028-Sep-24	
CN	2008-Oct-08	200880110804.X	2011-Aug-10	CN 102149960	2014-May-07	200880110804.X	2028-Oct-07	
CN	2008-Nov-03	200880114707.8	2010-Sep-29	CN 101849434	2013-Nov-20	200880114707.8	2028-Nov-02	Yes
CN	2008-Nov-03	200880114523.1	2010-Sep-29	CN 101849430	2012-Jul-18	200880114523.1	2028-Nov-02	
CN	2008-Nov-24	200880118159.6	2010-Nov-03	CN 101878673	2014-Feb-12	200880118159.6	2028-Nov-23	
CN	2008-Dec-16	200880121633.0	2010-Dec-01	CN 101903825			2028-Dec-16	
CN	2008-Dec-16	200880121687.7	2010-Dec-01	CN 101904222	2014-Jun-04	200880121687.7	2028-Dec-15	Yes
CN	2008-Dec-22	200880122363.5	2010-Dec-08	CN 101910721	2013-Sep-25	200880122363.5	2028-Dec-21	
CN	2008-Dec-29	200880127692.9	2011-Jan-26	CN 101960921	2014-Jan-08	200880127692.9	2028-Dec-28	
CN	2009-Jan-13	200980102414.2	2010-Dec-15	CN 101918094	2013-Jan-02	200980102414.2	2029-Jan-12	Yes
CN	2009-Apr-03	200980121068.2	2011-May-11	CN 102057752	2016-Jun-08	200980121068.2	2029-Apr-02	
CN	2009-Apr-21	200980115579.3	2011-Apr-13	CN 102017795	2014-Mar-05	200980115579.3	2029-Apr-20	
CN	2009-Apr-29	200980116143.6	2011-Apr-13	CN 102017796	2013-Jun-19	200980116143.6	2029-Apr-28	
CN	2009-May-20	200980120114.7	2011-May-04	CN 102047156	2014-Mar-26	200980120114.7	2029-May-19	
CN	2009-May-27	200980120930.8	2011-May-11	CN 102057722	2014-Mar-05	200980120930.8	2029-May-26	Yes
CN	2009-Jun-03	200980121770.9	2011-May-11	CN 102057753	2013-Nov-06	200980121770.9	2029-Jun-02	Yes
CN	2009-Jun-12	200980121935.2	2011-May-18	CN 102057213	2013-Jan-30	200980121935.2	2029-Jun-11	Yes
CN	2009-Jun-12	200980122021.8		102132088			2029-Jun-12	
CN	2009-Jul-03	200980126862.6	2011-Jun-08	CN 102088840	2014-Mar-05	200980126862.6	2029-Jul-02	Yes
CN	2009-Jul-10	200980126642.3	2011-Jun-08	CN 102089578	2016-May-11	200980126642.3	2029-Jul-09	
CN	2009-Jul-16	200980128995.7	2011-Jun-22	CN 102105980	2013-Jul-24	200980128995.7	2029-Jul-15	Yes
CN	2009-Jul-22	200980129902.2	2011-Jun-29	CN 102113410	2013-Nov-06	200980129902.2	2029-Jul-21	
CN	2009-Jul-22	200980129904.1	2011-Jun-29	CN 102113411	2015-May-20	200980129904.1	2029-Jul-21	
CN	2009-Aug-11	200980131248.9	2011-Jul-06	CN 102119581	2017-Mar-22	200980131248.9	2029-Aug-10	
CN	2009-Aug-13	200980140502.1	2010-Feb-18	WO2010-019810	2016-Oct-26	200980140502.1	2029-Aug-12	
CN	2009-Aug-24	200980134929.0	2011-Aug-24	CN 102144430	2016-Sep-07	200980134929.0	2029-Aug-24	
CN	2009-Aug-31	201510371676.6	2015-Sep-30	CN 104955232	2018-Feb-27	201510371676.6	2029-Aug-30	Yes
CN	2009-Aug-31	201510369182.4			2018-Jun-15	201510369182.4	2029-Aug-30	Yes
CN	2009-Aug-31	200980143361.9			2015-Jul-29	200980143361.9	2029-Aug-30	Yes
CN	2009-Sep-04	200980135588.9	2011-Aug-10	CN 102149966	2014-Mar-12	200980135588.9	2029-Sep-03	
CN	2009-Sep-11	200980136171.4	2011-Aug-17	CN 102159664	2015-Jan-14	200980136171.4	2029-Sep-10	Yes
CN	2009-Sep-16	200980137288.4	2011-Aug-24	CN 102164480	2015-Jan-07	200980137288.4	2029-Sep-15	Yes
CN	2009-Oct-02	200980140113.9	2011-Sep-07	CN 102177767	2015-Apr-29	200980140113.9	2029-Oct-01	
CN	2009-Nov-03	200980144311.2	2011-Oct-12	CN 102203505	2015-Jan-14	200980144311.2	2029-Nov-02	
CN	2009-Nov-12	200980145939.4	2011-Oct-12	CN 102216669	2015-Mar-18	200980145939.4	2029-Nov-11	
CN	2009-Nov-12	201410110815.5	2014-Jul-23	CN 103939768	2016-Nov-23	201410110815.5	2029-Nov-11	
CN	2009-Nov-26	200980148621.1	2011-Nov-09	CN 102239747	2014-Mar-26	200980148621.1	2029-Nov-25	Yes
CN	2009-Nov-27	200980149425.6	2011-Nov-16	CN 102246600	2015-Jan-14	200980149425.6	2029-Nov-26	
CN	2009-Nov-30	200980154251.2	2011-Dec-14	102272514 A	2014-Aug-13	200980154251.2	2029-Nov-29	
CN	2010-Jan-04	201080004272.9	2011-Dec-07	CN 102272515	2015-Jan-14	201080004272.9	2030-Jan-03	
CN	2010-Jan-05	201080004191.9	2011-Dec-07	CN 102272511			2030-Jan-05	
CN	2010-Jan-12	201080006370.6	2012-Jan-06	CN 102301824	2016-Jan-13	201080006370.6	2030-Jan-11	Yes
CN	2010-Feb-02	201080006746.3	2012-Jan-04	CN 102308384	2015-Jun-17	201080006746.3	2030-Feb-01	
CN	2010-Feb-26	201080010746.0	2012-Feb-01	CN 102342184	2014-Aug-20	201080010746.0	2030-Feb-25	Yes
CN	2010-Mar-11	201080011445.X	2012-Feb-15	CN 102349353	2016-Mar-16	201080011445.X	2030-Mar-10	
CN	2010-Mar-11	201080011619.2	2012-Feb-08	CN 102348929	2013-Jun-12	201080011619.2	2030-Mar-10	Yes
CN	2010-Mar-15	201080013707.6	2012-Feb-22	102362554-A	2014-Nov-12	201080013707.6	2030-Mar-14	
CN	2010-Mar-30	201080015196.1	2012-Mar-14	CN 102378928	2014-Aug-13	201080015196.1	2030-Mar-29	
CN	2010-Mar-31	201080015179.8	2012-Mar-14	102378801-A	2014-Jun-04	201080015179.8	2030-Mar-30	
CN	2010-Apr-01	201080017771.1	2012-Apr-11	CN 102415077	2014-Sep-24	201080017771.1	2030-Mar-31	
CN	2010-Apr-01	201020150788.1			2011-Apr-06	201020150788.1	2020-Apr-01	
CN	2010-Apr-01	201080019400.7	2012-Apr-11	CN 102414504	2015-Sep-23	201080019400.7	2030-Apr-01	Yes
CN	2010-Apr-01	201410094443.1	2014-May-21	CN 103812951	2018-Feb-06	201410094443.1	2030-Mar-31	
CN	2010-Apr-22	201080003746.8			2014-Oct-22	201080003746.8	2030-Apr-21	Yes
CN	2010-Apr-23	201080019874.1	2012-May-22	CN 102439351			2030-Apr-23	
CN	2010-May-05	201080022133.9	2012-May-02	CN 102440070	2015-Aug-19	201080022133.9	2030-May-04	
CN	2010-May-21	201080023276.1	2012-May-09	CN 102449372	2016-Aug-10	201080023276.1	2030-May-20	
CN	2010-May-26	201080023299.2	2012-May-09	CN 102449374	2016-May-11	201080023299.2	2030-May-25	
CN	2010-May-28	201080024477.3	2012-May-16	CN 102461335	2016-Mar-02	201080024477.3	2030-May-27	Yes
CN	2010-May-31	201080024819.1	2012-May-16	CN 102461336	2015-Apr-22	201080024819.1	2030-May-30	Yes
CN	2010-Jun-04	201080034802.4	2012-Nov-28	CN 102804493	2015-Apr-29	201080034802.4	2030-Jun-03	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
CN	2010-Jun-09	201080027146.5	2012-May-16	CN 102460560	2015-Apr-01	CN201080027146.5	2030-Jun-08	
CN	2010-Jun-11	201080027126.8	2012-Nov-28	CN 102803845	2019-May-21	201080027126.8	2030-Jun-10	
CN	2010-Jun-14	201080027156.9	2012-May-16	CN 102459991	2014-Jan-15	201080027156.9	2030-Jun-13	
CN	2010-Jun-15	201080027072.5	2012-Nov-28	CN 102804917	2015-Aug-26	201080027072.5	2030-Jun-14	
CN	2010-Jun-22	201080028445.0	2012-Nov-28	CN 102804919	2016-Jan-20	201080028445.0	2030-Jun-21	
CN	2010-Jun-30	201020245264.0			2011-Mar-30	201020245264.0	2020-Jun-30	
CN	2010-Jul-07	201610756097.8	2017-Feb-01	CN 106376125	2019-Sep-03	201610756097.8	2030-Jul-06	
CN	2010-Jul-07	201080032098.9	2012-May-23	CN 102473379	2016-Sep-21	201080032098.9	2030-Jul-06	
CN	2010-Jul-13	201010228247.0					2011-Aug-13	Yes
CN	2010-Jul-14	201080033508.1	2012-May-30	CN 102484914	2015-Apr-22	201080033508.1	2030-Jul-13	
CN	2010-Jul-19	201080033334.9	2012-May-23	CN 102474951	2015-Jan-14	201080033334.9	2030-Jul-18	
CN	2010-Jul-21	201080034046.5	2012-Jun-13	CN 102498752	2015-Jan-14	201080034046.5	2030-Jul-20	Yes
CN	2010-Jul-27	201080033501.X	2012-May-23	CN 102474933	2015-Sep-30	201080033501.X	2030-Jul-26	
CN	2010-Aug-10	201080068037.8	2013-Mar-27	CN 103004290	2016-Nov-16	201080068037.8	2030-Aug-09	Yes
CN	2010-Aug-13	CN 201080046880.6	2012-Jul-25	CN102612791A	2015-Apr-08	201080046880.6	2030-Aug-12	
CN	2010-Aug-13	CN 201080046791.1	2012-Jul-25	CN 102612862	2015-Jun-03	201080046791.1	2030-Aug-12	Yes
CN	2010-Aug-13	201510072474.1	2015-Jun-17	CN104717803	2017-Sep-05	201510072474.1	2030-Aug-12	
CN	2010-Aug-13	CN 201510214363.X	2015-Aug-26	CN 104869703	2018-Jun-26	CN 201510214363	2030-Aug-12	Yes
CN	2010-Aug-17	201080038003.4	2012-May-30	CN 102484917	2015-Aug-19	201080038003.4	2030-Aug-16	Yes
CN	2010-Aug-18	201080038002.X	2012-May-30	CN 102484916	2014-Dec-31	201080038002.X	2030-Aug-17	
CN	2010-Aug-18	201080038004.9	2012-May-30	CN 102484918	2015-Apr-01	201080038004.9	2030-Aug-17	Yes
CN	2010-Aug-30	201080039304.9	2012-May-30	CN 102483193			2030-Aug-30	
CN	2010-Sep-01	201080039303.4	2012-May-30	CN 102484919	2015-May-13	201080039303.4	2030-Aug-31	
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CN	2010-Sep-09	201080008845.5	2012-Jan-18	CN 102326024			2030-Sep-09	
CN	2010-Sep-10	201080041630.3	2012-Jul-11	CN 102577635	2015-Mar-25	201080041630.3	2030-Sep-09	Yes
CN	2010-Sep-13	201080041323.5	2012-Jul-04	CN 102549333	2014-Dec-10	201080041323.5	2030-Sep-12	
CN	2010-Sep-24	201080043538.0	2012-Jun-20	CN 102511201	2014-Sep-10	201080043538.0	2030-Sep-23	Yes
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CN	2010-Oct-18	201080048262.5	2012-Sep-12	CN 102668710	2014-Jun-18	201080048262.5	2030-Oct-17	
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CN	2010-Oct-29	201080050287.9	2012-Jul-18	CN 102598495	2015-Aug-05	201080050287.9	2030-Oct-28	Yes
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CN	2010-Nov-30	201080055702.X	2012-Aug-22	CN 102648663	2016-Apr-06	201080055702.X	2030-Nov-29	
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CN	2010-Dec-13	201080060690.X	2012-Sep-19	CN 102686940	2016-Dec-21	201080060690.X	2030-Dec-12	
CN	2011-Feb-28	201180011969.3	2012-Nov-21	CN 102792086			2031-Feb-28	
CN	2011-Mar-01	201180014418.2	2013-Jan-23	CN 102870497	2016-Mar-02	201180014418.2	2031-Feb-28	Yes
CN	2011-Mar-11	201180015737.5	2012-Dec-05	CN 102812781	2016-May-11	201180015737.5	2031-Mar-10	
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CN	2011-Apr-07	201110094659.4	2011-Oct-19	CN 102223745	2013-Dec-25	201110094659.4	2031-Apr-06	
CN	2011-Apr-13	201180028543.9	2013-Mar-27	CN103003629	2017-Jul-18	201180028543.9	2031-Apr-12	Yes
CN	2011-Apr-13	201610148073.4	2016-Jul-20	CN 105782930	2019-Sep-24	201610148073.4	2031-Apr-13	Yes
CN	2011-Apr-22	201180021029.2	2013-Jan-02	CN 102860129	2016-Apr-13	201180021029.2	2031-Apr-21	
CN	2011-Apr-26	201180022768.3	2013-Feb-20	CN 102939652	2016-Aug-03	201180022768.3	2031-Apr-25	
CN	2011-Apr-27	201180023482.7	2013-Jan-30	CN 102906495	2016-Aug-24	201180023482.7	2031-Apr-26	
CN	2011-Jun-16	201180030113.0	2013-Feb-27	CN 102948258	2016-Aug-03	201180030113.0	2031-Jun-15	
CN	2011-Jun-20	201180033111.7	2013-Mar-13	CN 102972098	2016-Jan-20	201180033111.7	2031-Jun-19	Yes
CN	2011-Jun-24	201180035521.5	2013-Mar-27	CN 103004036	2015-Dec-16	201180035521.5	2031-Jun-23	
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CN	2011-Jul-07	201110259522.X			2015-Jun-03	201110259522.X	2031-Jul-06	
CN	2011-Jul-14	201180035519.8	2013-Mar-27	CN 103003618	2017-Feb-08	201180035519.8	2031-Jul-13	
CN	2011-Jul-29	201180037668.8			2016-Nov-30	201180037668.8	2031-Jul-28	
CN	2011-Jul-29	201180036965.0			2016-Oct-26	201180036965.0	2031-Jul-28	Yes
CN	2011-Aug-05	201180042395.6	2013-Apr-24	CN 103069746	2016-Aug-31	201180042395.6	2031-Aug-04	
CN	2011-Aug-11	201180039708.2	2013-May-15	CN 103109127	2016-Apr-20	201180039708.2	2031-Aug-10	
CN	2011-Sep-05	201180043419.X	2013-May-01	CN 103081573	2015-Jan-28	201180043419.X	2031-Sep-04	Yes
CN	2011-Sep-19	201410511063.3	2014-Dec-31	104251462	2016-Oct-26	201410511063.3	2031-Sep-18	Yes
CN	2011-Sep-19	201180046901.9	2013-Jul-10	CN 103201555	2016-May-11	201180046901.9	2031-Sep-18	Yes
CN	2011-Oct-12	201180050905.4	2013-Jun-19	CN 103168196	2016-Mar-02	201180050905.4	2031-Oct-11	Yes
CN	2011-Oct-27	201120415687.7			2012-Aug-08	201120415687.7	2021-Oct-27	
CN	2011-Nov-15	201180056689.4	2013-Jul-24	CN 103222339	2016-Mar-16	201180056689.4	2031-Nov-14	
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CN	2011-Dec-01	201180060912.2	2013-Aug-28	CN 103270812	2016-Aug-10	201180060912.2	2031-Nov-30	Yes
CN	2011-Dec-09	201180061711.4	2013-Aug-28	CN 103270363	2017-Mar-22	201180061711.4	2031-Dec-08	
CN	2011-Dec-09	201610306334.0	2016-Aug-17	CN 105864664	2020-Nov-20	201610306334.0	2031-Dec-09	
CN	2011-Dec-14	201180062420.7	2013-Sep-11	CN 103299713	2016-Aug-24	201180062420.7	2031-Dec-13	Yes
CN	2011-Dec-16	201180067689.4			2016-Jun-15	201180067689.4	2031-Dec-15	Yes
CN	2012-Jan-11	201280005383.0	2013-Sep-18	CN 103314257	2017-Apr-26	201280005383.0	2032-Jan-10	
CN	2012-Jan-20	CN201280009746.8	2014-Apr-09	CN 103718411	2016-Nov-09	201280009746.8	2032-Jan-19	Yes
CN	2012-Feb-01	201280007656.5	2013-Nov-20	CN 103403439	2016-Oct-19	201280007656.5	2032-Jan-31	
CN	2012-Mar-12	201280013696.0	2013-Dec-11	CN 103444263	2016-Sep-21	201280013696.0	2032-Mar-11	
CN	2012-Mar-15	201280014767.9	2014-Jan-08	CN 103502728	2019-Jan-01	201280014767.9	2032-Mar-14	Yes
CN	2012-Mar-16	201280016138.X	2013-Dec-25	CN 103477148	2016-Aug-17	201280016138.X	2032-Mar-15	
CN	2012-Mar-22	201280016491.8	2013-Dec-18	CN 103459921	2016-Nov-02	201280016491.8	2032-Mar-21	
CN	2012-Mar-23	201280016613.3	2013-Dec-04	CN 103430627	2015-Nov-25	201280016613.3	2032-Mar-22	
CN	2012-Mar-27	201280016137.5	2013-Dec-25	CN 103477710	2016-Dec-28	201280016137.5	2032-Mar-26	
CN	2012-Mar-28	201280016145.X	2013-Dec-18	CN 103460801	2016-Jun-08	201280016145.X	2032-Mar-27	Yes
CN	2012-Mar-28	201280017097.6	2013-Dec-18	CN 103460802	2016-Aug-17	201280017097.6	2032-Mar-27	Yes
CN	2012-Apr-03	201280027177.X	2014-Feb-12	CN 103582689	2017-Mar-01	201280027177.X	2032-Apr-02	
CN	2012-Apr-17	201280021948.4	2014-Jan-08	CN 103503179	2016-Nov-02	201280021948.4	2032-Apr-16	
CN	2012-May-11	201280024008.0	2014-Jan-29	CN 103548419	2016-Oct-26	201280024008.0	2032-May-10	Yes
CN	2012-May-14	201280023861.0	2014-Jan-22	CN 103535114	2016-Nov-16	201280023861.0	2032-May-13	
CN	2012-May-30	201280026293.X	2014-Feb-05	CN 103562624	2017-Jan-18	201280026293.X	2032-May-29	Yes
CN	2012-May-31	201280029102.5	2014-Feb-19	103597279A	2016-Aug-31	201280029102.5	2032-May-30	Yes
CN	2012-Jun-11	201280029103.X	2014-Feb-26	CN 103609201	2017-Jan-18	201280029103.X	2032-Jun-10	Yes







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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
CZ	2006-Jan-05	06701369.8	2007-Oct-24	EP 1846949	2018-Aug-22	1846949	2026-Jan-05	
CZ	2006-May-08	06770064.1	2008-Oct-29	EP 1984667	2017-Aug-23	1984667	2026-May-08	
CZ	2006-May-24	06765708.0		EP 1889519	2009-Mar-18	1889519	2026-May-24	
CZ	2007-May-31	15177109.4	2016-Mar-23	EP 2999314	2020-Nov-18	2999314	2027-May-31	
CZ	2007-Nov-27	07862228.9	2009-Aug-19	EP 2089656	2011-Mar-02	2089656	2027-Nov-27	
CZ	2008-Mar-12	08743813.1			2018-Aug-01	2135487	2028-Mar-12	
CZ	2009-Nov-03	19205260.3	2020-Apr-15	EP 3637185	2021-Jul-07	3637185	2029-Nov-03	
CZ	2009-Nov-03	09759792.6	2011-Jul-27	EP 2347172	2020-Jan-22	2347172	2029-Nov-03	
CZ	2010-Feb-02	10703518.0	2011-Dec-14	EP 2394300	2018-Aug-15	2394300	2030-Feb-02	
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## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
DK	2013-Aug-28	13792978.2	2015-Jul-29	EP 2898755	2021-May-19	2898755	2033-Aug-28	Yes
DK	2013-Dec-05	13818440.3	2015-Oct-14	EP 2929239	2018-Mar-28	2929239	2033-Dec-05	Yes
DK	2014-Apr-21	14719284.3	2016-Mar-09	EP 2992733	2018-Dec-26	2992733	2034-Apr-21	Yes
DK	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
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DK	2014-Aug-29	14757933.8	2016-Mar-02	EP 2989864	2016-Oct-12	2989864	2034-Aug-29	Yes
DK	2014-Oct-08	EP14786822.8	2016-Aug-17	EP 3055022	2018-Aug-08	3055022	2034-Oct-08	Yes
DK	2014-Oct-28	14904216.0	2016-Aug-10	EP 3053413	2019-Feb-13	3053413	2034-Oct-28	
DK	2015-Jan-21	15701166.9	2016-Dec-07	EP	2022-Dec-21	3099972	2035-Jan-21	Yes
DK	2015-Jan-30	19155288.4	2019-Jul-17	EP 3511918	2023-May-17	3511918	2035-Jan-30	Yes
DK	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
DK	2015-Jul-06	15734185.0	2017-May-17	3167225-A	2017-Nov-01	3167225	2035-Jul-06	Yes
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EP	2006-Nov-20	06821499.8		EP 1954975	2012-Jan-11	1954975	2026-Nov-20	
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EP	2007-May-31	20182270.7	2020-Dec-16	EP 3751966				
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EP	2010-Feb-26	10708388.3	2012-Jan-11	EP 2404485	2020-May-20	2404485	2030-Feb-26	Yes
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EP	2012-Dec-04	12819137.6	2014-Oct-22	EP 2791724			2032-Dec-04	Yes
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EP	2014-Oct-28	14904216.0	2016-Aug-10	EP 3053413	2019-Feb-13	3053413		
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EP	2015-Jul-10	EP15736505.7	2017-May-24	EP 3170370				Yes
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EP	2015-Dec-03	15851620.3	2017-Aug-02	EP 3198997	2019-Feb-20	3198997		Yes
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EP	2019-Oct-21	22207116.9	2023-Apr-19	EP 4166840				Yes
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ES	2001-Oct-25	01997118.3		EP 1337784	2009-Jun-17	1337784	2021-Oct-25	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
ES	2001-Dec-20	01994819.9		EP 1399692	2008-Nov-05	1399692	2021-Dec-20	
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ES	2008-May-05	08738079.6	2010-Jan-27	EP 2147349	2013-Jul-17	2147349	2028-May-05	
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ES	2014-Apr-21	14718971.6	2016-Mar-16	EP 2994696	2022-Oct-05	2994696	2034-Apr-21	Yes
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FR	1998-Dec-17	98964035.4	1999-Jun-24	EP 1040398	2018-Feb-21	1040398	2018-Dec-17	
FR	1999-Jun-17	99922465.2	2000-Sep-13	EP 1034690	2003-Oct-29	1034690	2019-Jun-17	
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FR	1999-Dec-02	99962235.0	2000-Dec-06	EP 1056993	2003-Mar-26	1056993	2019-Dec-02	
FR	2000-Mar-10	00914124.3		EP 1082572	2007-Apr-18	1082572	2020-Mar-10	
FR	2000-Apr-06	00926827.7	2001-Apr-04	EP 1088350	2011-Nov-23	1088350	2020-Apr-06	
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FR	2000-Nov-20	05076817.5	2005-Dec-28	EP 1610593	2015-Jul-08	1610593	2020-Nov-20	
FR	2000-Dec-01	00126262.5	2001-Jun-13	EP 1106914	2002-Sep-11	1106914	2020-Dec-01	
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FR	2001-Sep-05	01965257.7		EP 1321012	2005-Dec-14	1321012	2021-Sep-05	
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FR	2002-Jul-23	02755430.2	2004-May-06	EP 1415345	2014-Apr-23	1415345	2022-Jul-23	
FR	2002-Aug-09	02755483.1	2004-May-26	EP 1421830	2011-Oct-12	1421830	2022-Aug-09	
FR	2002-Sep-17	02773430.0	2004-Jun-16	EP 1428415	2012-Jul-18	1428415	2022-Sep-17	

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FR	2002-Sep-30	02800685.6		EP 1438877	2006-May-10	1438877	2022-Sep-30	
FR	2002-Nov-15	02781532.3		EP 1459599	2008-Feb-27	1459599	2022-Nov-15	
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FR	2002-Dec-20	02790641.1		EP 1461980	2006-Oct-25	1461980	2022-Dec-20	
FR	2003-Feb-06	03700452.0		EP 1479270	2006-Jul-05	1479270	2023-Feb-06	
FR	2003-Jun-12	03735929.6		EP 1518445	2009-May-06	1518445	2023-Jun-12	
FR	2003-Aug-28	03791823.2		EP 1535495	2010-Jan-13	1535495	2023-Aug-28	
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FR	2004-Apr-21	20172248.5	2020-Oct-14	EP 3722533	2022-Oct-26	3722533	2024-Apr-21	
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FR	2004-Nov-10	04105649.0	2005-Aug-10	EP 1561993	2016-Oct-26	1561993	2024-Nov-10	
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FR	2005-Oct-17	05791937.5	2007-Jul-18	EP 1808050	2022-Dec-07	1808050	2025-Oct-17	
FR	2005-Nov-09	05809900.3		EP 1815536	2011-Feb-09	1815536	2025-Nov-09	
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FR	2005-Nov-28	05807221.6	2007-Aug-29	EP 1825515	2015-Nov-25	1825515	2025-Nov-28	
FR	2005-Dec-02	05815525.0		EP 1842399	2017-Oct-04	1842399	2025-Dec-02	
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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
FR	2006-Aug-15	06795657.3	2008-May-21	EP 1922575	2011-May-25	1922575	2026-Aug-15	Yes
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FR	2007-Oct-31	07816094.2	2009-Aug-12	EP 2087772	2017-Sep-06	2087772	2027-Oct-31	
FR	2007-Nov-06	07826984.2		EP 2082620	2010-Jul-28	2082620	2027-Nov-06	
FR	2007-Nov-08	07827030.3		EP 2084945	2010-Mar-31	2084945	2027-Nov-08	
FR	2007-Nov-09	07840007.4		EP 2082621	2010-Jul-14	2082621	2027-Nov-09	
FR	2007-Nov-27	07849266.7	2009-Aug-26	EP 2092669	2013-Jun-26	2092669	2027-Nov-27	
FR	2007-Nov-27	07862228.9	2009-Aug-19	EP 2089656	2011-Mar-02	2089656	2027-Nov-27	
FR	2007-Dec-07	07849372.3	2009-Sep-23	EP 2103190	2012-Oct-17	2103190	2027-Dec-07	
FR	2007-Dec-07	10194284.5	2011-Mar-30	EP 2302983	2019-Oct-09	2302983	2027-Dec-07	
FR	2007-Dec-11	07855501.8	2009-Aug-26	EP 2092797	2012-Nov-21	2092797	2027-Dec-11	
FR	2007-Dec-14	07849508.2	2009-Sep-09	EP 2098101	2011-Jul-06	2098101	2027-Dec-14	Yes
FR	2007-Dec-17	07849526.4	2009-Sep-02	EP 2095353	2019-May-01	2095353	2027-Dec-17	
FR	2008-Mar-03	08719540.0	2009-Nov-18	EP 2117648	2015-Aug-26	2117648	2028-Mar-03	Yes
FR	2008-Mar-12	18185781.4	2019-Apr-17	EP 3471513	2020-Oct-07	3471513	2028-Mar-12	
FR	2008-Mar-12	08743811.5			2017-Aug-30	2130407	2028-Mar-12	Yes
FR	2008-Mar-12	08743813.1			2018-Aug-01	2135487	2028-Mar-12	
FR	2008-Mar-14	18192950.6			2020-Aug-05	3445021	2028-Mar-14	Yes
FR	2008-Mar-31	08737675.2	2010-Jan-13	EP 2143303	2012-Aug-08	2143303	2028-Mar-31	
FR	2008-Apr-04	08737714.9		EP 2135005	2010-Oct-06	2135005	2028-Apr-04	
FR	2008-Apr-07	08737750.3	2010-Jan-27	EP 2147243	2019-Jun-12	2147243	2028-Apr-07	Yes
FR	2008-Apr-11	08737808.9	2010-Jan-06	EP 2140502	2017-Apr-05	2140502	2028-Apr-11	
FR	2008-Apr-21	08737928.5		EP 2143304	2010-Sep-15	2143304	2028-Apr-21	
FR	2008-Apr-23	08733779.6	2010-Jan-20	EP 2145510	2016-Sep-21	2145510	2028-Apr-23	
FR	2008-Apr-28	08738006.9	2010-Jan-27	EP 2147576	2014-Apr-16	2147576	2028-Apr-28	
FR	2008-May-01	14195242.4	2015-Apr-22	EP 2863104	2019-Jul-10	2863104	2028-May-01	
FR	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-02	
FR	2008-May-02	08747429.2	2010-Jan-27	EP 2147244	2015-Dec-02	2147244	2028-May-02	
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FR	2008-May-19	13160382.1	2013-Jun-26	EP 2607169	2021-Jul-07	2607169	2028-May-19	
FR	2008-May-22	08751309.9	2010-Mar-24	EP 2164568	2016-Feb-24	2164568	2028-May-22	Yes
FR	2008-May-26	08763104.0	2010-Feb-10	EP 2150851	2015-Mar-11	2150851	2028-May-26	
FR	2008-May-30	08763152.9	2010-Mar-10	EP 2160731	2016-Jul-13	2160731	2028-May-30	
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FR	2008-Jun-30	08789176.8	2010-Mar-24	EP 2165576	2018-Aug-08	2165576	2028-Jun-30	
FR	2008-Jul-21	08789379.8		EP 2174531	2013-Jun-05	2174531	2028-Jul-21	
FR	2008-Aug-14	08789608.0		EP 2181565	2011-Apr-27	2181565	2028-Aug-14	
FR	2008-Aug-28	08807484.4	2010-Jun-02	EP 2190664	2016-Mar-16	2190664	2028-Aug-28	Yes
FR	2008-Sep-16	08807680.7	2010-Jul-07	EP 2203679	2012-May-30	2203679	2028-Sep-16	
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FR	2008-Nov-03	08846739.4	2010-Jul-21	EP 2208397	2018-Oct-03	2208397	2028-Nov-03	Yes



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FR	2008-Nov-24	08855505.7	2010-Aug-18	EP 2218308	2013-Jun-19	2218308	2028-Nov-24	
FR	2008-Dec-16	08865696.2	2010-Sep-08	EP 2225916	2017-May-10	2225916	2028-Dec-16	Yes
FR	2008-Dec-16	08862035.6	2010-Oct-06	EP 2235589	2018-Jul-25	2235589	2028-Dec-16	
FR	2008-Dec-22	08863774.9	2010-Oct-06	EP 2235435	2013-Sep-11	2235435	2028-Dec-22	
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FR	2009-Jan-13	09702240.4	2010-Sep-22	EP 2229228	2014-Jul-16	2229228	2029-Jan-13	Yes
FR	2009-Apr-21	09738502.5	2011-Jan-26	EP 2277357	2015-Apr-15	2277357	2029-Apr-21	
FR	2009-Apr-29	09742495.6	2011-Jan-19	EP 2274956	2011-Nov-23	2274956	2029-Apr-29	
FR	2009-May-27	09757936.1	2011-Mar-02	EP 2289266	2015-Jan-14	2289266	2029-May-27	Yes
FR	2009-Jun-03	09762099.1	2011-Mar-02	EP 2289285	2013-Aug-21	2289285	2029-Jun-03	Yes
FR	2009-Jun-12	09761217.0	2011-Mar-02	EP 2288846	2018-Dec-12	2288846	2029-Jun-12	Yes
FR	2009-Jun-12	09761216.2	2011-Mar-02	EP 2288848	2018-Dec-26	2288848	2029-Jun-12	
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FR	2009-Jul-10	09786561.2	2011-Mar-23	EP 2297516	2012-Feb-22	2297516	2029-Jul-10	
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FR	2010-Jul-21	10740396.6	2012-Jun-06	EP 2460390	2013-Nov-20	2460390	2030-Jul-21	Yes
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FR	2010-Sep-10	10760076.9	2012-Jul-25	EP 2478750	2014-Nov-12	2478750	2030-Sep-10	Yes
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FR	2010-Sep-24	10765672.0	2012-Sep-05	EP 2494849	2013-Aug-14	2494849	2030-Sep-24	Yes
FR	2010-Oct-18	10825478.0	2012-Aug-29	EP 2491767	2017-Apr-12	2491767	2030-Oct-18	
FR	2010-Oct-29	10782402.1	2012-Sep-12	EP 2497339	2017-Sep-20	2497339	2030-Oct-29	
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FR	2011-Mar-01	11714107.7	2013-Jan-23	EP 2548413	2018-Jan-03	2548413	2031-Mar-01	Yes
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FR	2011-Apr-13	11714280.2		EP 2567149	2015-Jul-08	2567149	2031-Apr-13	Yes
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FR	2011-Apr-26	11721372.8	2013-Mar-13	EP 2567402	2016-Sep-07	2567402	2031-Apr-26	
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FR	2011-Jul-14	11748743.9	2013-May-29	EP 2596278	2017-Jun-21	2596278	2031-Jul-14	
FR	2011-Jul-29	11743913.3			2019-Jan-09	2599200	2031-Jul-29	Yes
FR	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
FR	2011-Jul-29	11748799.1	2013-Jun-05	2599203	2017-Nov-15	2599203	2031-Jul-29	
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FR	2011-Sep-19	11768154.4	2013-Aug-07	EP 2622263	2014-Sep-03	2622263	2031-Sep-19	Yes
FR	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-19	Yes
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FR	2011-Nov-16	11794283.9			2019-Jan-09	2681969	2031-Nov-16	
FR	2011-Nov-22	11793494.3	2013-Oct-09	EP 2647260	2019-Aug-21	2647260	2031-Nov-22	
FR	2011-Dec-01	11797155.6	2013-Oct-23	EP 2653011	2020-Mar-18	2653011	2031-Dec-01	Yes
FR	2011-Dec-09	11804814.9	2013-Oct-30	EP 2655956	2020-Jul-29	2655956	2031-Dec-09	
FR	2011-Dec-14	11815794.0	2013-Oct-30	EP 2656690	2015-Mar-04	2656690	2031-Dec-14	Yes
FR	2011-Dec-16	11813481.6		EP 2653014	2016-Oct-19	2653014	2031-Dec-16	Yes
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FR	2012-Jan-20	EP 12737154.0	2013-Nov-27	EP2666220	2019-Sep-18	2666220	2032-Jan-20	Yes
FR	2012-Feb-01	12704317.2	2013-Dec-11	EP 2671016	2016-Apr-20	2671016	2032-Feb-01	
FR	2012-Mar-12	12710360.4	2014-Jan-22	EP 2687065	2019-Jan-02	2687065	2032-Mar-12	
FR	2012-Mar-12	18211656.6	2019-May-29	EP 3490342	2020-Jul-15	3490342	2032-Mar-12	
FR	2012-Mar-15	12711261.3	2014-Jan-29	EP 2689182	2020-May-20	2689182	2032-Mar-15	Yes
FR	2012-Mar-16	12711276.1	2014-Feb-05	EP 2691697	2020-May-06	2691697	2032-Mar-16	
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FR	2012-Mar-23	12712763.7	2014-Feb-05	EP 2692211	2019-Aug-14	2692211	2032-Mar-23	
FR	2012-Mar-27	12715184.3	2014-Feb-05	EP 2692208	2019-Nov-27	2692208	2032-Mar-27	
FR	2012-Mar-28	12712768.6	2014-Feb-12	EP 2695485	2016-Dec-28	2695485	2032-Mar-28	Yes
FR	2012-Mar-28	12715190.0	2014-Feb-05	EP 2692209	2015-Jan-28	2692209	2032-Mar-28	Yes
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FR	2012-May-11	12725505.7	2014-Mar-26	EP 2710861	2019-Jan-09	2710861	2032-May-11	Yes
FR	2012-May-14	12724737.7	2014-Mar-26	EP 2710860	2016-Nov-30	2710860	2032-May-14	
FR	2012-May-30	12170107.2	2012-Dec-12	EP 2533615	2014-Nov-05	2533615	2032-May-30	Yes
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FR	2012-May-31	12727711.9	2014-Apr-23	2721341	2018-Apr-18	2721341	2032-May-31	Yes
FR	2012-Jun-11	12738194.5	2014-Apr-16	EP 2719258	2016-Feb-03	2719258	2032-Jun-11	Yes
FR	2012-Jun-13	12735026.2	2014-Apr-23	EP 2721343	2019-Nov-06	2721343	2032-Jun-13	Yes
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FR	2012-Jul-05	12748783.3	2014-May-21	EP 2732525	2016-Apr-20	2732525	2032-Jul-05	
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FR	2012-Sep-11	12784071.8	2014-Jun-25	EP 2745046	2015-Nov-25	2745046	2032-Sep-11	Yes
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FR	2012-Oct-29	12812346.0	2014-Jul-09	EP 2752090	2018-Jan-03	2752090	2032-Oct-29	
FR	2012-Nov-16	12819135.0	2014-Jul-02	EP 2748520	2017-Mar-01	2748520	2032-Nov-16	
FR	2012-Dec-10	12821037.4	2014-Jul-02	EP 2748517	2021-Mar-17	2748517	2032-Dec-10	Yes
FR	2012-Dec-11	12820908.7	2014-Jul-02	EP 2748688	2019-Feb-20	2748688	2031-Dec-13	
FR	2013-Jan-02	13703876.6	2014-Nov-12	EP 2801240	2016-Apr-06	2801240	2033-Jan-02	
FR	2013-Jan-02	13703878.2	2014-Aug-06	EP 2761978	2016-Apr-06	2761978	2033-Jan-02	
FR	2013-Jan-10	13705570.3	2014-Nov-19	EP 2802805	2017-Oct-18	2802805	2033-Jan-10	
FR	2013-Jan-25	13710564.9	2014-Dec-10	EP 2810534	2019-Nov-06	2810534	2033-Jan-25	
FR	2013-Jan-25	13709554.3	2014-Dec-10	EP 2810533	2015-Aug-05	2810533	2033-Jan-25	
FR	2013-Jan-30	13711957.4	2014-Dec-24	EP 2815633	2016-Dec-14	2815633	2033-Jan-30	Yes
FR	2013-Jan-30	16200531.8	2017-Jun-17	EP 3182807	2020-Aug-12	3182807	2033-Jan-30	Yes
FR	2013-Feb-08	13713975.4	2014-Oct-08	EP 2786640	2015-Jul-22	2786640	2033-Feb-08	
FR	2013-Feb-22	13717318.3	2014-Dec-31	EP 2818028	2017-Apr-12	2818028	2033-Feb-22	
FR	2013-Feb-22	13717316.7	2014-Dec-17	EP 2823691	2019-Apr-10	2823691	2033-Feb-22	
FR	2013-Mar-04	13718392.7	2015-Jan-14	EP 2823692	2018-May-16	2823692	2033-Mar-04	Yes
FR	2013-Mar-06	13718394.3	2015-Jan-21	EP 2825820	2018-Jan-03	2825820	2033-Mar-06	Yes
FR	2013-Mar-07	13720567.0	2015-Feb-04	EP 2832183	2016-May-18	2832183	2033-Mar-07	
FR	2013-Mar-08	13721393.0	2015-Jan-28	EP 2829158	2016-May-18	2829158	2033-Mar-08	
FR	2013-Mar-11	13722822.7	2015-Jan-28	EP 2829159	2020-Aug-26	2829159	2033-Mar-11	
FR	2013-Mar-20	13721401.1	2015-Feb-04	EP 2832184	2016-Jan-13	2832184	2033-Mar-20	
FR	2013-Apr-04	18167770.9	2018-Oct-03	EP 3382755	2020-Jan-08	3382755	2033-Apr-04	
FR	2013-Apr-04	13724395.2	2015-Feb-11	EP 2834842	2018-Jul-04	2834842	2033-Apr-04	
FR	2013-Apr-16	13726598.9	2015-Feb-25	EP 2839204	2016-Dec-14	2839204	2033-Apr-16	
FR	2013-Apr-25	13727651.5	2015-Mar-11	EP 2845445	2021-Aug-11	2845445	2033-Apr-25	
FR	2013-Apr-26	13727386.8	2015-Mar-18	EP 2848091	2018-Nov-28	2848091	2033-Apr-26	
FR	2013-May-06	13729464.1	2015-Mar-25	EP 2850917	2017-Feb-22	2850917	2033-May-06	Yes
FR	2013-May-08	13732624.5	2015-Mar-18	EP 2847511	2017-Mar-22	2847511	2033-May-08	Yes
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FR	2013-May-21	13734501.3	2015-Apr-15	EP 2858854	2018-Jan-03	2858854	2033-May-21	Yes
FR	2013-May-22	13736961.7	2015-Apr-08	EP 2856490	2016-Mar-09	2856490	2033-May-22	
FR	2013-May-22	13733050.2	2015-Apr-08	EP 2856004	2016-Sep-14	2856004	2033-May-22	Yes
FR	2013-May-28	13734200.2	2015-Apr-08	EP 2856843	2017-Apr-12	2856843	2033-May-28	Yes
FR	2013-Jun-17	13750382.7	2015-May-06	EP 2867982	2016-Mar-16	2867982	2033-Jun-17	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
FR	2013-Jun-18	13758989.1	2015-May-06	EP 2868162	2019-Mar-06	2868162	2033-Jun-18	Yes
FR	2013-Jun-26	13762232.0	2015-May-06	EP 2868163	2020-May-06	2868163	2033-Jun-26	
FR	2013-Jul-04	13763118.0	2015-May-27	EP 2875700	2018-Mar-14	2875700	2033-Jul-04	Yes
FR	2013-Jul-04	17199356.1	2018-Apr-11	EP 3307028	2021-Apr-07	3307028	2033-Jul-04	Yes
FR	2013-Jul-09	13766683.0	2015-May-20	EP 2873302	2021-May-12	2873302	2033-Jul-09	Yes
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FR	2013-Jul-10	13765478.6	2015-May-20	EP 2873310	2019-Feb-27	2873310	2033-Jul-10	
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FR	2013-Dec-05	13818440.3	2015-Oct-14	EP 2929239	2018-Mar-28	2929239	2033-Dec-05	Yes
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FR	2014-Aug-14	EP14752612.3	2016-Jul-20	EP 3044497	2018-Apr-11	3044497	2034-Aug-14	Yes
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FR	2014-Nov-04	14793118.2	2016-Jun-15	EP	2017-Apr-05	3031301	2034-Nov-04	Yes
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FR	2014-Dec-05	EP14815599.7	2016-Oct-12	EP 3078243	2019-Feb-27	3078243	2034-Dec-05	Yes
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FR	2014-Dec-29	EP14828162.9	2016-Nov-23	EP 3095299	2018-Feb-21	3095299	2034-Dec-29	Yes
FR	2014-Dec-31	14827552.2	2016-Nov-16	EP 3092870	2019-Feb-20	3092870	2034-Dec-31	Yes
FR	2015-Jan-06	15700959.8	2016-Jul-13	EP 3042548	2017-May-31	3042548	2035-Jan-06	Yes
FR	2015-Jan-15	15703469.5	2016-Dec-07	EP 3099161	2019-Nov-20	3099161	2035-Jan-15	Yes
FR	2015-Jan-21	15701166.9	2016-Dec-07	EP	2022-Dec-21	3099972	2035-Jan-21	Yes
FR	2015-Jan-21	22185117.3	2022-Dec-28	EP 4108982	2024-Apr-17	4108982		Yes
FR	2015-Jan-27	EP15703247.5	2016-Oct-19	EP 3080512	2017-Jun-07	3080512	2035-Jan-27	Yes
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FR	2015-Feb-03	EP15702484.5	2016-Sep-28	EP 3071881	2017-Aug-23	3071881	2035-Feb-03	
FR	2015-Feb-09	15710002.5	2017-Jan-04	EP	2019-Jan-30	3111727	2035-Feb-09	Yes
FR	2015-Feb-13	EP15704536.0	2017-Jan-04	EP 3111725	2022-Aug-17	3111725	2035-Feb-13	Yes
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FR	2015-Feb-23	EP15706017.9	2016-Aug-31	EP	2017-Apr-12	3061320	2035-Feb-23	
FR	2015-Mar-05	15707968.2	2016-Feb-17	EP 2984399	2016-Jul-27	2984399	2035-Mar-05	Yes
FR	2015-Mar-11	16190614.4	2017-May-10	3165809-A	2021-Sep-29	3165809	2035-Mar-11	Yes
FR	2015-Mar-11	15709474.9	2016-Mar-02	EP 2989373	2016-Nov-16	2989373	2035-Mar-11	Yes
FR	2015-Mar-12	EP15714648.1	2017-Feb-01	EP 3123835	2019-Feb-27	3123835	2035-Mar-12	Yes
FR	2015-Mar-17	15709960.7	2017-Jan-25	EP 3120671	2018-Sep-12	3120671	2035-Mar-17	Yes
FR	2015-Apr-28	EP15727463.0	2017-Mar-22	EP	2019-Aug-14	3143842	2035-Apr-28	Yes
FR	2015-May-27	15726916.8	2017-Apr-19	3155875-A	2017-Dec-27	3155875	2035-May-27	Yes
FR	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
FR	2015-Jun-08	15725683.5	2016-Aug-17	EP	2017-Apr-05	3056066	2035-Jun-08	
FR	2015-Jun-24	EP15731323.0	2017-May-10	3164928-A	2019-Aug-07	3164928	2035-Jun-24	
FR	2015-Jul-02	15733747.8	2016-Dec-14	EP	2017-Jun-07	3102870	2035-Jul-02	Yes
FR	2015-Jul-06	15734185.0	2017-May-17	3167225-A	2017-Nov-01	3167225	2035-Jul-06	
FR	2015-Jul-08	15734685.9	2017-May-24	3170373-A	2020-Sep-09	3170373	2035-Jul-08	Yes
FR	2015-Jul-10	EP15176200.2	2016-Mar-02	EP 2990717	2017-Sep-13	2990717	2035-Jul-10	Yes
FR	2015-Jul-15	EP15176831.4	2016-Feb-17	EP 2985510	2017-Jun-28	2985510	2035-Jul-15	Yes
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FR	2015-Aug-27	15771313.2	2017-Jul-05	EP3186552	2020-Aug-12	3186552	2035-Aug-27	Yes
FR	2015-Sep-18	15771881.8	2017-Aug-09	EP 3201696	2023-Jul-26	3201696	2035-Sep-18	Yes
FR	2015-Sep-23	15771900.6	2017-Aug-09	EP 3201697	2021-Dec-29	3201697	2035-Sep-23	Yes
FR	2015-Sep-30	EP15784476.2	2017-Aug-09	EP 3201524	2018-Feb-28	3201524	2035-Sep-30	
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FR	2015-Dec-03	15851620.3	2017-Aug-02	EP 3198997	2019-Feb-20	3198997	2035-Dec-03	Yes
FR	2016-Mar-07	16158978.3			2019-Sep-11	3065511	2036-Mar-07	Yes

## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
FR	2016-Mar-07	16158975.9			2020-Dec-16	3065510	2036-Mar-07	Yes
FR	2016-Mar-11	16845314.0	2017-Nov-01	EP 3238508	2019-May-08	3238508	2036-Mar-11	Yes
FR	2016-Mar-11	19172759.3			2022-Nov-16	3570643	2036-Mar-11	Yes
FR	2016-Apr-04	16713475.8	2018-Feb-14	EP 3281270	2019-Jan-09	3281270	2036-Apr-04	
FR	2016-Apr-08	16164411.7	2016-Oct-12	EP 3079447	2017-Nov-01	3079447	2036-Apr-08	Yes
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FR	2016-Jun-08	16732481.3	2018-Apr-25	EP 3311632	2020-Feb-26	3311632	2036-Jun-08	Yes
FR	2016-Aug-05	EP16182950.2	2017-Mar-08	EP 3139086	2018-May-23	3139086	2036-Aug-05	
FR	2016-Aug-05	18154729.0	2018-Jul-25	EP 3351851	2019-Oct-09	3351851	2036-Aug-05	
FR	2016-Aug-09	EP16757574.5	2018-Jul-04	EP 3342257	2019-Jul-31	3342257	2036-Aug-09	Yes
FR	2016-Oct-12	16781407.8	2018-Sep-05	EP 3368634	2019-Dec-11	3368634	2036-Oct-12	Yes
FR	2016-Oct-17	16784470.3	2018-Aug-29	EP 3366084	2021-Apr-14	3366084	2036-Oct-17	Yes
FR	2016-Dec-01	16805415.3	2018-Oct-24	EP 3391711	2019-Jul-31	3391711	2036-Dec-01	Yes
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FR	2017-Mar-20	17710760.4	2019-Jan-30	EP 3434074	2020-May-06	3434074	2037-Mar-20	Yes
FR	2017-Apr-19	17718888.5	2019-Feb-27	EP 3446552	2019-Nov-06	3446552	2037-Apr-19	Yes
FR	2017-May-22	17724576.8	2019-Apr-17	EP 3469255	2020-Aug-19	3469255	2037-May-22	Yes
FR	2017-Jul-27	17742771.3	2019-Jun-19	EP 3498059	2019-Dec-18	3498059	2037-Jul-27	Yes
FR	2017-Aug-04	17837750.3	2019-Jun-12	EP3494342	2021-Dec-08	3494342	2037-Aug-04	Yes
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FR	2017-Dec-21	17817761.4	2019-Dec-04	EP 3574712	2021-Jun-30	3574712	2037-Dec-21	Yes
FR	2018-Feb-09	18156037.6	2018-Aug-15	EP 3361148	2019-Sep-18	3361148	2038-Feb-09	Yes
FR	2018-Feb-19	18704570.3	2020-Jan-08	EP 3590149	2020-Sep-09	3590149	2038-Feb-19	Yes
FR	2019-Oct-21	19787278.1	2021-Sep-08	EP 3874196	2022-Dec-28	3874196	2039-Oct-21	Yes
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GB	1998-Jul-14	98935809.8		EP 1021817	2013-Nov-20	1021817	2018-Jul-14	
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GB	1998-Aug-26	98944539.0		EP 1016062	2002-Aug-07	1016062	2018-Aug-26	
GB	1998-Aug-26	01130297.3	2002-Apr-10	EP 1195740	2017-Nov-22	1195740	2018-Aug-26	
GB	1998-Dec-17	98964035.4	1999-Jun-24	EP 1040398	2018-Feb-21	1040398	2018-Dec-17	
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GB	2000-Nov-20	00980578.9	2002-Aug-28	EP 1234140	2005-Aug-10	1234140	2020-Nov-20	
GB	2000-Dec-01	00126263.3	2001-Jun-13	EP 1106915	2002-Sep-25	1106915	2020-Dec-01	
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GB	2001-Jan-08	01907413.7		EP 1166604	2006-Jun-14	1166604	2021-Jan-08	
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GB	2001-Jun-21	10182095.9	2011-Sep-07	EP 2364067	2013-Dec-11	2364067	2021-Jun-21	
GB	2001-Jun-21	01948546.5	2003-Mar-26	EP 1295515	2011-Dec-28	1295515	2021-Jun-21	
GB	2001-Aug-14	01203099.5		EP 1182396	2009-Oct-14	1182396	2021-Aug-14	
GB	2001-Aug-31	01120981.4	2002-Mar-06	EP 1183964	2003-Nov-05	1183964	2021-Aug-31	
GB	2001-Sep-05	01965257.7		EP 1321012	2005-Dec-14	1321012	2021-Sep-05	
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GB	2001-Nov-09	01990408.5		EP 1338181	2006-Apr-12	1338181	2021-Nov-09	
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GB	2001-Dec-06	01271514.0		EP 1259754	2011-Mar-02	1259754	2021-Dec-06	
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GB	2001-Dec-20	01994819.9		EP 1399692	2008-Nov-05	1399692	2021-Dec-20	
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GB	2002-May-10	02734387.0	2004-Feb-11	EP 1388276	2011-Aug-10	1388276	2022-May-10	
GB	2002-May-30	02739485.7		EP 1393599	2010-May-05	1393599	2022-May-30	
GB	2002-Jun-07	02735758.1		EP 1399694	2006-Aug-09	1399694	2022-Jun-07	
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GB	2002-Aug-09	02755483.1	2004-May-26	EP 1421830	2011-Oct-12	1421830	2022-Aug-09	
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GB	2005-Nov-28	05807221.6	2007-Aug-29	EP 1825515	2015-Nov-25	1825515	2025-Nov-27	
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GB	2006-May-11	06744912.4	2008-Feb-20	EP 1889518	2011-Dec-14	1889518	2026-May-10	
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GB	2008-Apr-21	08737928.5		EP 2143304	2010-Sep-15	2143304	2028-Apr-20	
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GB	2008-Apr-23	08733779.6	2010-Jan-20	EP 2145510	2016-Sep-21	2145510	2028-Apr-22	
GB	2008-Apr-28	08738006.9	2010-Jan-27	EP 2147576	2014-Apr-16	2147576	2028-Apr-27	
GB	2008-May-01	14195242.4	2015-Apr-22	EP 2863104	2019-Jul-10	2863104	2028-Apr-30	
GB	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-01	
GB	2008-May-02	08747429.2	2010-Jan-27	EP 2147244	2015-Dec-02	2147244	2028-May-01	
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GB	2008-May-19	13160382.1	2013-Jun-26	EP 2607169	2021-Jul-07	2607169	2028-May-18	
GB	2008-May-22	08751309.9	2010-Mar-24	EP 2164568	2016-Feb-24	2164568	2028-May-21	Yes
GB	2008-May-26	08763104.0	2010-Feb-10	EP 2150851	2015-Mar-11	2150851	2028-May-25	
GB	2008-May-30	08763152.9	2010-Mar-10	EP 2160731	2016-Jul-13	2160731	2028-May-29	
GB	2008-Jun-23	08763422.6	2010-Mar-17	EP 2163132	2013-Oct-09	2163132	2028-Jun-22	
GB	2008-Jun-30	08789176.8	2010-Mar-24	EP 2165576	2018-Aug-08	2165576	2028-Jun-29	
GB	2008-Jul-21	08789379.8		EP 2174531	2013-Jun-05	2174531	2028-Jul-20	
GB	2008-Aug-14	08789608.0		EP 2181565	2011-Apr-27	2181565	2028-Aug-13	
GB	2008-Aug-28	08807484.4	2010-Jun-02	EP 2190664	2016-Mar-16	2190664	2028-Aug-27	Yes

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
GB	2008-Sep-16	08807680.7	2010-Jul-07	EP 2203679	2012-May-30	2203679	2028-Sep-15	
GB	2008-Oct-08	15170674.4	2016-Aug-03	EP 3051586	2018-Feb-21	3051586	2028-Oct-07	
GB	2008-Oct-08	08838302.1	2010-Jul-21	EP 2207998	2015-Sep-16	2207998	2028-Oct-07	
GB	2008-Nov-03	08846739.4	2010-Jul-21	EP 2208397	2018-Oct-03	2208397	2028-Nov-02	Yes
GB	2008-Nov-24	08855505.7	2010-Aug-18	EP 2218308	2013-Jun-19	2218308	2028-Nov-23	
GB	2008-Nov-28	0821727.5	2010-Jun-09	GB 20080021727	2011-Nov-16	2465966	2028-Nov-27	
GB	2008-Dec-16	08865696.2	2010-Sep-08	EP 2225916	2017-May-10	2225916	2028-Dec-15	Yes
GB	2008-Dec-16	08862035.6	2010-Oct-06	EP 2235589	2018-Jul-25	2235589	2028-Dec-15	
GB	2008-Dec-22	08863774.9	2010-Oct-06	EP 2235435	2013-Sep-11	2235435	2028-Dec-21	
GB	2008-Dec-29	08870459.8	2010-Sep-22	EP 2229803	2011-Oct-26	2229803	2028-Dec-28	
GB	2009-Jan-13	09702240.4	2010-Sep-22	EP 2229228	2014-Jul-16	2229228	2029-Jan-12	Yes
GB	2009-Apr-21	09738502.5	2011-Jan-26	EP 2277357	2015-Apr-15	2277357	2029-Apr-20	
GB	2009-Apr-29	09742495.6	2011-Jan-19	EP 2274956	2011-Nov-23	2274956	2029-Apr-28	
GB	2009-May-27	09757936.1	2011-Mar-02	EP 2289266	2015-Jan-14	2289266	2029-May-26	Yes
GB	2009-Jun-03	09762099.1	2011-Mar-02	EP 2289285	2013-Aug-21	2289285	2029-Jun-02	Yes
GB	2009-Jun-12	09761217.0	2011-Mar-02	EP 2288846	2018-Dec-12	2288846	2029-Jun-11	Yes
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GB	2009-Jul-16	09786625.5	2011-Apr-06	EP 2304791	2019-Apr-17	2304791	2029-Jul-15	Yes
GB	2009-Jul-22	09786664.4	2011-May-11	EP 2319275	2013-Nov-20	2319275	2029-Jul-21	
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GB	2009-Aug-11	09786892.1	2011-Apr-20	EP 2311299	2013-Mar-13	2311299	2029-Aug-10	
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GB	2009-Aug-31	1102839.6		EP 2474994	2013-Jan-09	2474994	2029-Aug-30	Yes
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GB	2009-Sep-04	09787096.8	2011-Jun-01	EP 2326869	2016-Jun-29	2326869	2029-Sep-03	
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GB	2009-Nov-26	09799151.7	2011-Oct-12	EP 2374334	2018-Aug-22	2374334	2029-Nov-25	Yes
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GB	2010-Apr-01	10715358.7	2012-Feb-29	EP 2422507	2013-Jun-19	2422507	2030-Mar-31	
GB	2010-Apr-01	13165685.2	2013-Aug-21	EP 2629491	2014-Sep-17	2629491	2030-Mar-31	
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GB	2010-May-05	10719619.8	2012-Mar-28	EP 2433471	2018-Jul-18	2433471	2030-May-04	
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GB	2010-May-31	10727934.1	2012-Apr-11	EP 2438799	2018-Dec-12	2438799	2030-May-30	Yes
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GB	2010-Jul-07	10800332.8	2012-Jul-04	EP 2471057	2020-Mar-25	2471057	2030-Jul-06	
GB	2010-Jul-14	10740369.3	2012-May-30	EP 2457415	2014-Feb-26	2457415	2030-Jul-13	
GB	2010-Jul-19	10740379.2	2012-May-30	EP 2457418	2013-Jan-16	2457418	2030-Jul-18	
GB	2010-Jul-21	10740396.6	2012-Jun-06	EP 2460390	2013-Nov-20	2460390	2030-Jul-20	Yes
GB	2010-Jul-27	10745008.2	2012-Jun-06	EP 2460389	2013-May-01	2460389	2030-Jul-26	
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GB	2010-Aug-13	10808816.2	2012-Jun-20	EP 2465174	2019-Jan-09	2465174	2030-Aug-12	
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GB	2010-Sep-07	10760057.9	2012-Jul-25	EP 2478743	2014-Jun-11	2478743	2030-Sep-06	
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GB	2010-Sep-10	10760076.9	2012-Jul-25	EP 2478750	2014-Nov-12	2478750	2030-Sep-09	Yes
GB	2010-Sep-13	10760080.1	2012-Jul-25	EP 2478289	2013-Jun-05	2478289	2030-Sep-12	
GB	2010-Sep-24	10765672.0	2012-Sep-05	EP 2494849	2013-Aug-14	2494849	2030-Sep-23	Yes
GB	2010-Oct-18	10825478.0	2012-Aug-29	EP 2491767	2017-Apr-12	2491767	2030-Oct-17	
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GB	2010-Oct-29	10782402.1	2012-Sep-12	EP 2497339	2017-Sep-20	2497339	2030-Oct-28	
GB	2010-Oct-29	10782705.7	2012-Sep-12	EP 2497186	2016-Aug-31	2497186	2030-Oct-28	Yes
GB	2010-Nov-22	10793052.1	2012-Oct-24	EP 2513552	2019-Sep-11	2513552	2030-Nov-21	
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GB	2010-Dec-10	10809182.8	2012-Oct-24	EP 2514273	2015-May-06	2514273	2030-Dec-09	
GB	2010-Dec-13	10810795.4	2012-Nov-14	EP 2521879	2015-Apr-29	2521879	2030-Dec-12	
GB	2011-Feb-28	11713358.7	2013-Jan-09	EP 2542826	2018-Oct-24	2542826	2031-Feb-27	
GB	2011-Mar-01	11714107.7	2013-Jan-23	EP 2548413	2018-Jan-03	2548413	2031-Feb-28	Yes
GB	2011-Mar-11	11714109.3	2013-Jan-30	EP 2550843	2018-Jan-24	2550843	2031-Mar-10	
GB	2011-Apr-01	11719657.6	2013-Feb-13	EP 2556294	2015-Mar-25	2556294	2031-Mar-31	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
GB	2011-Apr-13	11714280.2		EP 2567149	2015-Jul-08	2567149	2031-Apr-12	Yes
GB	2011-Apr-22	11723662.0	2013-Mar-06	EP 2564669	2018-Aug-29	2564669	2031-Apr-21	
GB	2011-Apr-27	11721826.3	2013-Mar-20	EP 2569576	2016-Jul-06	2569576	2031-Apr-26	
GB	2011-Jun-16	11754735.6	2013-Apr-24	EP 2583536	2015-Feb-11	2583536	2031-Jun-15	
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GB	2011-Jun-30	11738821.5	2013-May-15	EP 2591275	2017-Mar-01	2591275	2031-Jun-29	
GB	2011-Jul-14	11748743.9	2013-May-29	EP 2596278	2017-Jun-21	2596278	2031-Jul-13	
GB	2011-Jul-29	11748799.1		EP 2599203	2017-Nov-15	2599203	2031-Jul-28	
GB	2011-Jul-29	11743913.3		EP 2599200	2019-Jan-09	2599200	2031-Jul-28	Yes
GB	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-28	
GB	2011-Aug-05	11754507.9	2013-Jul-10	EP 2612463	2014-Apr-16	2612463	2031-Aug-04	
GB	2011-Aug-11	11754522.8	2013-Jun-26	EP 2606274	2018-Mar-28	2606274	2031-Aug-10	
GB	2011-Sep-05	11764312.2	2013-Jul-17	EP 2614687	2014-Mar-19	2614687	2031-Sep-04	Yes
GB	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-18	Yes
GB	2011-Sep-19	11768154.4	2013-Aug-07	EP 2622263	2014-Sep-03	2622263	2031-Sep-18	Yes
GB	2011-Oct-12	11781866.6	2013-Aug-28	EP 2630405	2015-Dec-30	2630405	2031-Oct-11	Yes
GB	2011-Nov-15	11799321.2	2013-Oct-02	EP 2644006	2018-Mar-28	2644006	2031-Nov-14	
GB	2011-Nov-16	11794283.9		EP 2681969	2019-Jan-09	2681969	2031-Nov-15	
GB	2011-Nov-22	11793494.3	2013-Oct-09	EP 2647260	2019-Aug-21	2647260	2031-Nov-21	
GB	2011-Dec-01	11797155.6	2013-Oct-23	EP 2653011	2020-Mar-18	2653011	2031-Nov-30	Yes
GB	2011-Dec-09	11804814.9	2013-Oct-30	EP 2655956	2020-Jul-29	2655956	2031-Dec-08	
GB	2011-Dec-09	19213280.1	2020-May-20	EP 3653924	2024-Apr-17	3653924		
GB	2011-Dec-14	11815794.0	2013-Oct-30	EP 2656690	2015-Mar-04	2656690	2031-Dec-13	Yes
GB	2011-Dec-16	11813481.6		EP 2653014	2016-Oct-19	2653014	2031-Dec-15	Yes
GB	2012-Jan-03	12732193.3	2016-Apr-13	EP 2636286	2020-May-06	2636286	2032-Jan-02	Yes
GB	2012-Jan-11	12703883.4	2013-Nov-20	EP 2663806	2018-Jan-03	2663806	2032-Jan-10	
GB	2012-Jan-20	EP 12737154.0	2013-Nov-27	EP2666220	2019-Sep-18	2666220	2032-Jan-19	Yes
GB	2012-Feb-01	12704317.2	2013-Dec-11	EP 2671016	2016-Apr-20	2671016	2032-Jan-31	
GB	2012-Feb-28	12752072.4	2012-Sep-07	EP2681484	2023-Nov-08	2681484	2032-Feb-27	
GB	2012-Mar-12	18211656.6	2019-May-29	EP 3490342	2020-Jul-15	3490342	2032-Mar-11	
GB	2012-Mar-12	12710360.4	2014-Jan-22	EP 2687065	2019-Jan-02	2687065	2032-Mar-11	
GB	2012-Mar-15	12711261.3	2014-Jan-29	EP 2689182	2020-May-20	2689182	2032-Mar-14	Yes
GB	2012-Mar-16	12711276.1	2014-Feb-05	EP 2691697	2020-May-06	2691697	2032-Mar-15	
GB	2012-Mar-22	12712759.5	2014-Feb-05	EP 2691698	2020-May-06	2691698	2032-Mar-21	
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GB	2012-Mar-27	12715184.3	2014-Feb-05	EP 2692208	2019-Nov-27	2692208	2032-Mar-26	
GB	2012-Mar-27	19209235.1	2020-Apr-22	EP 3641502				
GB	2012-Mar-28	12712768.6	2014-Feb-12	EP 2695485	2016-Dec-28	2695485	2032-Mar-27	Yes
GB	2012-Mar-28	12715190.0	2014-Feb-05	EP 2692209	2015-Jan-28	2692209	2032-Mar-27	Yes
GB	2012-Apr-02	12716291.5	2014-Feb-12	EP 2694867	2016-Aug-31	2694867	2032-Apr-01	
GB	2012-Apr-03	12717488.6	2014-Feb-19	EP 2697337	2019-Jun-12	2697337	2032-Apr-02	
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GB	2012-May-14	12724737.7	2014-Mar-26	EP 2710860	2016-Nov-30	2710860	2032-May-13	
GB	2012-May-30	12170107.2	2012-Dec-12	EP 2533615	2014-Nov-05	2533615	2032-May-29	Yes
GB	2012-May-30	12732872.2	2014-Apr-09	EP 2715221	2017-May-10	2715221	2032-May-29	Yes
GB	2012-Jun-11	12738194.5	2014-Apr-16	EP 2719258	2016-Feb-03	2719258	2032-Jun-10	Yes
GB	2012-Jun-13	12735026.2	2014-Apr-23	EP 2721343	2019-Nov-06	2721343	2032-Jun-12	Yes
GB	2012-Jun-15	12735032.0	2014-Apr-23	EP 2721656	2019-Sep-25	2721656	2032-Jun-14	Yes
GB	2012-Jun-29	12737399.1		EP 2727228	2019-Feb-13	2727228	2032-Jun-28	Yes
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GB	2012-Jul-24	12767105.5	2014-Jun-04	EP 2737774	2017-Jun-28	2737774	2032-Jul-23	
GB	2012-Jul-31	12759259.0	2014-Apr-16	EP 2718612	2016-Sep-14	2718612	2032-Jul-30	Yes
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GB	2013-Feb-08	13713975.4	2014-Oct-08	EP 2786640	2015-Jul-22	2786640	2033-Feb-07	
GB	2013-Feb-22	13717318.3	2014-Dec-31	EP 2818028	2017-Apr-12	2818028	2033-Feb-21	
GB	2013-Feb-22	13717316.7	2014-Dec-17	EP 2823691	2019-Apr-10	2823691	2033-Feb-21	
GB	2013-Mar-04	13718392.7	2015-Jan-14	EP 2823692	2018-May-16	2823692	2033-Mar-03	Yes
GB	2013-Mar-06	13718394.3	2015-Jan-21	EP 2825820	2018-Jan-03	2825820	2033-Mar-05	Yes
GB	2013-Mar-07	13720567.0	2015-Feb-04	EP 2832183	2016-May-18	2832183	2033-Mar-06	
GB	2013-Mar-08	13721393.0	2015-Jan-28	EP 2829158	2016-May-18	2829158	2033-Mar-07	
GB	2013-Mar-11	13722822.7	2015-Jan-28	EP 2829159	2020-Aug-26	2829159	2033-Mar-10	
GB	2013-Mar-20	13721401.1	2015-Feb-04	EP 2832184	2016-Jan-13	2832184	2033-Mar-19	
GB	2013-Apr-04	13724395.2	2015-Feb-11	EP 2834842	2018-Jul-04	2834842	2033-Apr-03	
GB	2013-Apr-04	18167770.9	2018-Oct-03	EP 3382755	2020-Jan-08	3382755	2033-Apr-03	
GB	2013-Apr-16	13726598.9	2015-Feb-25	EP 2839204	2016-Dec-14	2839204	2033-Apr-15	
GB	2013-Apr-25	13727651.5	2015-Mar-11	EP 2845445	2021-Aug-11	2845445	2033-Apr-24	







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## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
IE	2006-May-08	06770064.1	2008-Oct-29	EP 1984667	2017-Aug-23	1984667	2026-May-08	
IE	2006-Sep-15	06775996.9	2008-Jul-02	EP 1938666	2012-May-30	1938666	2026-Sep-15	
IE	2007-May-31	15177109.4	2016-Mar-23	EP 2999314	2020-Nov-18	2999314	2027-May-31	
IE	2008-Mar-12	08743813.1			2018-Aug-01	2135487	2028-Mar-12	
IE	2010-Feb-26	10708388.3	2012-Jan-11	EP 2404485	2020-May-20	2404485	2030-Feb-26	Yes
IE	2010-Jun-11	10730223.4	2012-Apr-25	EP 2443387	2016-Mar-02	2443387	2030-Jun-11	
IE	2010-Aug-13	10808816.2	2012-Jun-20	EP 2465174	2019-Jan-09	2465174	2030-Aug-13	
IE	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
IE	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
IE	2011-Dec-09	19213280.1	2020-May-20	EP 3653924	2024-Apr-17	3653924		
IE	2012-Aug-30	12759831.6	2014-Jul-09	EP2751477	2018-Apr-25	2751477	2032-Aug-30	Yes
IE	2013-Apr-25	13727651.5	2015-Mar-11	EP 2845445	2021-Aug-11	2845445	2033-Apr-25	
IE	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
IE	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
IE	2016-Mar-07	16158975.9			2020-Dec-16	3065510	2036-Mar-07	Yes
IN	1999-Sep-17	IN/PCT/00/00088			2007-Oct-08	210549	2019-Sep-17	
IN	2000-Jun-22	IN/PCT/01/00256			2007-Nov-13	211993	2020-Jun-22	
IN	2004-Jul-21	949/DELNP/2006					2024-Jul-21	
IN	2005-Jun-23	1611/MUMNP/2006					2025-Jun-23	
IN	2005-Oct-12	683/MUMNP/2007					2025-Oct-12	
IN	2005-Oct-12	684/MUMNP/2007					2025-Oct-12	
IN	2005-Dec-02	2338/KOLNP/2007			2015-Nov-30	270149	2025-Dec-02	
IN	2005-Dec-16	413/MUMNP/2008					2025-Dec-16	
IN	2006-May-11	5409/CHENP/2007			2016-Mar-11	271955	2026-May-11	
IN	2006-May-24	5411/CHENP/2007			2015-Jun-16	266914	2026-May-24	
IN	2006-Sep-15	1527/CHENP/2008			2016-May-31	273359	2026-Sep-15	
IN	2006-Sep-25	1494/CHENP/2008			2021-Apr-30	365765	2026-Sep-25	
IN	2006-Oct-06	1848/CHENP/2008			2017-Jan-30	279727	2026-Oct-06	
IN	2006-Oct-16	2083/CHENP/2008			2016-Mar-21	272161	2026-Oct-16	
IN	2006-Nov-13	2472/CHENP/2008			2016-Dec-16	278219	2026-Nov-13	
IN	2006-Nov-20	2527/CHENP/2008			2017-Jan-20	279420	2026-Nov-20	
IN	2006-Dec-12	2959/CHENP/2008			2016-Nov-09	277063	2026-Dec-12	
IN	2007-Jan-10	3715/CHENP/2008			2017-Mar-09	281232	2027-Jan-10	
IN	2007-Jan-26	4002/CHENP/2008			2016-Oct-19	276394	2027-Jan-26	
IN	2007-Apr-20	5937/CHENP/2008			2016-Aug-05	274743	2027-Apr-20	
IN	2007-Jun-19	6765/CHENP/2008			2018-Apr-09	295589	2027-Jun-19	
IN	2007-Jun-22	6676/CHENP/2008			2019-Mar-15	309313	2027-Jun-22	Yes
IN	2007-Jul-03	126/CHENP/2009			2017-Dec-22	290983	2027-Jul-03	
IN	2007-Jul-10	501/CHENP/2009					2027-Jul-10	Yes
IN	2007-Jul-27	525/CHENP/2009					2027-Jul-27	
IN	2007-Aug-09	4602/CHENP/2009			2018-Dec-19	304668	2027-Aug-09	
IN	2007-Aug-10	883/CHENP/2009					2027-Aug-10	
IN	2007-Aug-17	882/CHENP/2009			2018-Feb-13	292863	2027-Aug-17	
IN	2007-Aug-22	974/CHENP/2009			2018-May-31	297272	2027-Aug-22	
IN	2007-Aug-30	1362/CHENP/2009					2027-Aug-30	
IN	2007-Sep-03	1845/CHENP/2009					2027-Sep-03	
IN	2007-Sep-18	2287/CHENP/2009			2017-Oct-20	288556	2027-Sep-18	Yes
IN	2007-Sep-18	2289/CHENP/2009			2020-Jul-08	340926	2027-Sep-18	
IN	2007-Sep-20	2428/CHENP/2009					2027-Sep-20	
IN	2007-Sep-20	2426/CHENP/2009			2019-May-02	312219	2027-Sep-20	
IN	2007-Sep-20	2431/CHENP/2009			2020-Jul-07	340703	2027-Sep-20	
IN	2007-Sep-20	2045/CHENP/2009			2019-Nov-27	325958	2027-Sep-20	
IN	2007-Oct-11	2645/CHENP/2009			2017-Oct-09	288178	2027-Oct-11	
IN	2007-Oct-12	2642/CHENP/2009			2018-Jan-18	291839	2027-Oct-12	
IN	2007-Oct-19	2701/CHENP/2009			2017-Jul-11	285046	2027-Oct-19	
IN	2007-Oct-31	3012/CHENP/2009			2017-Oct-19	288532	2027-Oct-31	
IN	2007-Nov-08	3282/CHENP/2009			2017-Oct-24	288605	2027-Nov-08	
IN	2007-Nov-09	3217/CHENP/2009			2019-Nov-22	325602	2027-Nov-09	
IN	2007-Nov-27	3697/CHENP/2009			2019-Apr-04	310884	2027-Nov-27	
IN	2007-Nov-27	3470/CHENP/2009			2017-Nov-08	289384	2027-Nov-27	
IN	2007-Dec-07	3934/CHENP/2009			2019-Jul-09	315725	2027-Dec-07	
IN	2007-Dec-10	4071/CHENP/2009					2027-Dec-10	
IN	2007-Dec-11	4031/CHENP/2009			2017-Dec-05	290267	2027-Dec-11	
IN	2007-Dec-11	4032/CHENP/2009			2019-Aug-14	318170	2027-Dec-11	
IN	2007-Dec-12	4067/CHENP/2009					2027-Dec-12	
IN	2007-Dec-14	4207/CHENP/2009			2019-May-07	312390	2027-Dec-14	Yes
IN	2007-Dec-17	4206/CHENP/2009			2019-Aug-13	318105	2027-Dec-17	
IN	2008-Mar-03	5776/CHENP/2009			2019-Sep-26	321607	2028-Mar-03	Yes
IN	2008-Mar-31	6310/CHENP/2009			2017-Jul-31	285915	2028-Mar-31	
IN	2008-Apr-11	6602/CHENP/2009			2018-Mar-26	294852	2028-Apr-11	
IN	2008-Apr-23	6827/CHENP/2009			2018-Jan-10	291584	2028-Apr-23	
IN	2008-Apr-23	6966/CHENP/2009			2019-Dec-11	327165	2028-Apr-23	
IN	2008-Apr-30	7331/CHENP/2009					2028-Apr-30	
IN	2008-May-01	6974/CHENP/2009			2017-Nov-02	289132	2028-May-01	
IN	2008-May-02	7026/CHENP/2009			2017-Oct-17	288489	2028-May-02	
IN	2008-May-02	7333/CHENP/2009			2019-Sep-12	320268	2028-May-02	
IN	2008-May-22	7260/CHENP/2009			2019-May-08	312483	2028-May-22	Yes
IN	2008-Jun-09	121/CHENP/2010					2028-Jun-09	
IN	2008-Jul-25	1007/CHENP/2010					2028-Jul-25	
IN	2008-Sep-16	2280/CHENP/2010			2018-Mar-15	294365	2028-Sep-16	
IN	2008-Oct-08	2584/CHENP/2010			2020-May-19	337087	2028-Oct-08	
IN	2008-Nov-03	3242/CHENP/2010			2019-Dec-03	326627	2028-Nov-03	Yes
IN	2008-Dec-02	4134/CHENP/2010			2019-Mar-26	309898	2028-Dec-02	
IN	2008-Dec-22	4501/CHENP/2010			2022-Apr-05	394234	2028-Dec-22	
IN	2008-Dec-29	4633/CHENP/2010			2020-Sep-07	346189	2028-Dec-29	
IN	2009-Jan-13	4967/CHENP/2010			2020-Jun-30	339895	2029-Jan-13	Yes
IN	2009-Apr-03	6994/CHENP/2010	2011-Jul-22	6994/CHENP/2010			2029-Apr-03	
IN	2009-Apr-29	7649/CHENP/2010			2020-Aug-31	345741	2029-Apr-29	

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IN	2009-May-20	8111/CHENP/2010			2018-Oct-09	301984	2029-May-20	
IN	2009-Jun-03	8420/CHENP/2010			2019-Sep-23	321121	2029-Jun-03	Yes
IN	2009-Jun-12	177/CHENP/2011			2020-Aug-27	345327	2029-Jun-12	
IN	2009-Jun-12	174/CHENP/2011			2020-Jul-13	341302	2029-Jun-12	Yes
IN	2009-Jul-10	800/CHENP/2011			2020-Feb-17	332145	2029-Jul-10	
IN	2009-Jul-22	1260/CHENP/2011			2018-Jul-05	298534	2029-Jul-22	
IN	2009-Aug-11	1688/CHENP/2011			2020-Jul-09	341006	2029-Aug-11	
IN	2009-Sep-11	2446/CHENP/2011					2029-Sep-11	Yes
IN	2009-Sep-16	2526/CHENP/2011			2020-Sep-17	347039	2029-Sep-16	Yes
IN	2009-Nov-12	4162/CHENP/2011			2020-Jun-23	339131	2029-Nov-12	
IN	2009-Nov-26	4575/CHENP/2011			2020-Oct-13	349160	2029-Nov-26	Yes
IN	2009-Nov-27	4708/CHENP/2011			2019-Mar-07	308776	2029-Nov-27	
IN	2009-Nov-30	5643/CHENP/2011			2018-Aug-02	299664	2029-Nov-30	
IN	2010-Jan-04	5641/CHENP/2011			2020-Oct-29	350548	2030-Jan-04	
IN	2010-Jan-05	5642/CHENP/2011					2030-Jan-05	
IN	2010-Jan-12	6177/CHENP/2011			2023-Nov-28	473654	2030-Jan-12	Yes
IN	2010-Feb-02	6179/CHENP/2011			2021-Nov-29	383097	2030-Feb-02	
IN	2010-Feb-26	6796/CHENP/2011			2023-Mar-10	424774	2030-Feb-26	Yes
IN	2010-Mar-11	7028/CHENP/2011			2022-Feb-03	388444	2030-Mar-11	
IN	2010-Mar-11	7034/CHENP/2011			2021-Apr-08	364349	2030-Mar-11	Yes
IN	2010-Mar-15	7601/CHENP/2011			2019-Oct-17	323083	2030-Mar-15	
IN	2010-Mar-30	7929/CHENP/2011			2019-Mar-14	309228	2030-Mar-30	
IN	2010-Mar-31	8026/CHENP/2011			2020-Nov-04	350833	2030-Mar-31	
IN	2010-Apr-01	201948035723			2023-Nov-30	475537	2030-Apr-01	
IN	2010-Apr-01	8340/CHENP/2011			2023-Mar-09	424554	2030-Apr-01	
IN	2010-Apr-23	8629/CHENP/2011			2020-Mar-20	335480	2030-Apr-23	
IN	2010-May-05	9452/CHENP/2011			2018-Sep-05	300747	2030-May-05	
IN	2010-May-21	9567/CHENP/2011			2020-Sep-28	347990	2030-May-21	
IN	2010-May-26	9568/CHENP/2011			2020-Feb-12	331757	2030-May-26	
IN	2010-May-28	9705/CHENP/2011			2021-Jan-14	355836	2030-May-28	Yes
IN	2010-May-31	9711/CHENP/2011			2019-Jan-01	305191	2030-May-31	Yes
IN	2010-Jun-04	182010/052491					2030-Jun-04	
IN	2010-Jun-09	272/CHENP/2012			2022-Nov-28	412660	2030-Jun-09	
IN	2010-Jun-11	277/CHENP/2012			2020-Aug-12	343969	2030-Jun-11	
IN	2010-Jun-14	298/CHENP/2012			2020-Aug-14	344131	2030-Jun-14	
IN	2010-Jun-15	271/CHENP/2012			2021-Jan-14	355861	2030-Jun-15	
IN	2010-Jul-14	975/CHENP/2012			2022-Aug-29	404964	2030-Jul-14	
IN	2010-Jul-21	1030/CHENP/2012					2030-Jul-21	Yes
IN	2010-Aug-17	1525/CHENP/2012					2030-Aug-17	Yes
IN	2010-Aug-18	1526/CHENP/2012			2023-Jan-10	417399	2030-Aug-18	
IN	2010-Aug-18	1527/CHENP/2012			2019-Oct-04	322334	2030-Aug-18	Yes
IN	2010-Aug-30	1590/CHENP/2012			2019-Sep-30	322045	2030-Aug-30	
IN	2010-Sep-01	1713/CHENP/2012			2020-Jun-11	338374	2030-Sep-01	
IN	2010-Sep-07	2429/CHENP/2012			2018-Oct-03	301800	2030-Sep-07	
IN	2010-Sep-09	2155/CHENP/2012			2019-Nov-15	325155	2030-Sep-09	
IN	2010-Sep-09	2157/CHENP/2012			2020-Jan-02	328838	2030-Sep-09	
IN	2010-Sep-10	2063/CHENP/2012					2030-Sep-10	Yes
IN	2010-Sep-24	2325/CHENP/2012			2019-Dec-02	326490	2030-Sep-24	Yes
IN	2010-Sep-29	2777/CHENP/2012			2020-Jun-17	338626	2030-Sep-29	
IN	2010-Oct-07	202348008438						
IN	2010-Oct-07	3894/CHENP/2012	2014-Feb-14	3894/CHENP/2012-A	2023-Mar-09	424516	2030-Oct-07	
IN	2010-Oct-29	3462/CHENP/2012			2020-Mar-17	334925	2030-Oct-29	Yes
IN	2010-Oct-29	3461/CHENP/2012			2019-Jun-24	314555	2030-Oct-29	
IN	2010-Nov-22	5138/CHENP/2012			2021-Mar-17	361701	2030-Nov-22	
IN	2010-Nov-30	4268/CHENP/2012					2030-Nov-30	
IN	2010-Dec-10	4628/CHENP/2012			2021-Jul-27	372942	2030-Dec-10	
IN	2011-Feb-28	7115/CHENP/2012			2019-Dec-09	326951	2031-Feb-28	
IN	2011-Mar-01	7571/CHENP/2012			2020-Feb-26	333140	2031-Mar-01	Yes
IN	2011-Mar-11	7755/CHENP/2012			2021-Mar-08	360445	2031-Mar-11	
IN	2011-Apr-01	8057/CHENP/2012			2021-May-29	367981	2031-Apr-01	
IN	2011-Apr-27	8526/CHENP/2012			2020-Jan-06	328971	2031-Apr-27	
IN	2011-Jun-20	352/CHENP/2013	2016-May-20	352/CHENP/2013 A			2031-Jun-20	Yes
IN	2011-Jun-24	1048/CHENP/2013	2016-Aug-31	1048/CHENP/2013-A			2031-Jun-24	
IN	2011-Jun-30	350/CHENP/2013	2016-May-20	350/CHENP/2013-A	2019-Nov-11	324855	2031-Jun-30	
IN	2011-Jul-14	1046/CHENP/2013	2016-Aug-31	1046/CHENP/2013-A	2023-Feb-17	422118	2031-Jul-14	
IN	2011-Aug-11	1305/CHENP/2013			2021-Jan-19	356055	2031-Aug-11	
IN	2011-Oct-12	3097/CHENP/2013			2022-Dec-19	414906	2031-Oct-12	Yes
IN	2011-Dec-09	5816/CHENP/2013			2022-Jun-22	399851	2031-Dec-09	
IN	2011-Dec-09	202048049031			2023-Dec-15	483868		
IN	2012-Jan-11	6499/CHENP/2013			2021-Aug-11	374346	2032-Jan-11	
IN	2012-Feb-01	6984/CHENP/2013	2016-Jun-17	6984/CHENP/2013 A	2019-Dec-12	327258	2032-Feb-01	
IN	2012-Mar-12	8137/CHENP/2013			2020-Mar-11	334351	2032-Mar-12	
IN	2012-Mar-16	8351/CHENP/2013			2021-Mar-18	361814	2032-Mar-16	
IN	2012-Mar-22	8350/CHENP/2013			2021-Sep-28	378092	2032-Mar-22	
IN	2012-Mar-23	8353/CHENP/2013			2022-Feb-21	389802	2032-Mar-23	
IN	2012-Mar-27	8352/CHENP/2013			2019-Oct-30	323926	2032-Mar-27	
IN	2012-Mar-28	8503/CHENP/2013			2020-Mar-16	334725	2032-Mar-28	Yes
IN	2012-Mar-28	8345/CHENP/2013			2019-Jun-25	314628	2032-Mar-28	Yes
IN	2012-Apr-02	8224/CHENP/2013	2014-Dec-12	8224/CHENP/2013 A	2021-Aug-16	374596	2032-Apr-02	
IN	2012-Apr-03	8531/CHENP/2013					2032-Apr-03	
IN	2012-May-11	9364/CHENP/2013			2021-Aug-05	373886	2032-May-11	Yes
IN	2012-May-14	9366/CHENP/2013			2022-Apr-29	395952	2032-May-14	
IN	2012-May-30	9530/CHENP/2013			2019-Nov-08	324761	2032-May-30	Yes
IN	2012-Jun-11	9749/CHENP/2013			2022-Aug-02	402847	2032-Jun-11	Yes
IN	2012-Jul-05	421/CHENP/2014			2020-Feb-05	331310	2032-Jul-05	
IN	2012-Jul-24	664/CHENP/2014			2019-Jul-30	317072	2032-Jul-24	
IN	2012-Aug-02	846/CHENP/2014	2016-Aug-31	846/CHENP/2014-A	2022-Jun-14	399190	2032-Aug-02	Yes
IN	2012-Sep-11	1872/CHENP/2014			2021-May-25	367505	2032-Sep-11	Yes

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IN	2012-Sep-11	1875/CHENP/2014			2022-Sep-27	407679	2032-Sep-11	Yes
IN	2012-Sep-14	1726/CHENP/2014	2016-Jul-01	1726/CHENP/2014-A	2021-Jan-15	355925	2032-Sep-14	Yes
IN	2012-Oct-05	2303/CHENP/2014			2022-Dec-26	415491	2032-Oct-05	
IN	2012-Oct-12	2381/CHENP/2014			2022-Dec-26	415460	2032-Oct-12	
IN	2012-Oct-17	2654/CHENP/2014					2032-Oct-17	
IN	2012-Oct-19	3663/CHENP/2014			2022-Sep-29	408112	2032-Oct-19	
IN	2012-Oct-19	2538/CHENP/2014			2019-Oct-29	323905	2032-Oct-19	
IN	2012-Oct-29	3404/CHENP/2014			2020-Oct-28	350359	2032-Oct-29	
IN	2012-Nov-16	3658/CHENP/2014			2023-Aug-02	442447	2032-Nov-16	
IN	2012-Dec-04	4756/CHENP/2014			2023-Mar-21	426134	2032-Dec-04	Yes
IN	2012-Dec-10	5015/CHENP/2014			2020-May-11	336655	2032-Dec-10	Yes
IN	2012-Dec-11	4755/CHENP/2014					2032-Dec-11	
IN	2013-Jan-02	5395/CHENP/2014			2022-Aug-22	404029	2033-Jan-02	
IN	2013-Jan-02	2647/CHENP/2014			2021-Nov-29	382966	2033-Jan-02	
IN	2013-Jan-02	5398/CHENP/2014			2023-Sep-26	454635	2033-Jan-02	
IN	2013-Jan-04	5397/CHENP/2014					2033-Jan-04	Yes
IN	2013-Jan-10	5544/CHENP/2014			2024-Feb-12	509613	2033-Jan-10	
IN	2013-Jan-15	6040/CHENP/2014	2016-Jul-01	6040/CHENP/2014 A			2033-Jan-15	
IN	2013-Jan-18	5980/CHENP/2014	2016-Jul-01	5980/CHENP/2014-A	2023-Sep-12	450823	2033-Jan-18	
IN	2013-Jan-25	6044/CHENP/2014	2016-Jul-01	6044/CHENP/2014 A	2021-Jun-22	369850	2033-Jan-25	
IN	2013-Jan-25	5984/CHENP/2014	2016-Jul-01	5984/CHENP/2014 A	2019-Aug-30	319618	2033-Jan-25	
IN	2013-Jan-30	6254/CHENP/2014	2016-Jul-01	6254/CHENP/2014 A	2019-Nov-27	325906	2033-Jan-30	Yes
IN	2013-Feb-08	6256/CHENP/2014	2016-Jul-01	6256/CHENP/2014 A	2019-Nov-25	325777	2033-Feb-08	
IN	2013-Feb-22	7083/CHENP/2014	2016-Jul-01	7083/CHENP/2014 A	2019-Dec-11	327182	2033-Feb-22	
IN	2013-Feb-22	6342/CHENP/2014	2016-Jul-01	6342/CHENP/2014 A	2022-Oct-27	410077	2033-Feb-22	
IN	2013-Mar-06	7084/CHENP/2014	2016-Jul-01	7084/CHENP/2014 A	2022-Nov-01	410693	2033-Mar-06	Yes
IN	2013-Mar-07	7177/CHENP/2014	2016-Jul-01	7177/CHENP/2014-A	2021-Jun-18	369669	2033-Mar-07	
IN	2013-Mar-08	7073/CHENP/2014	2016-Jul-01	7073/CHENP/2014-A	2023-Mar-29	427501	2033-Mar-08	
IN	2013-Mar-20	7270/CHENP/2014	2016-Jul-01	7270/CHENP/2014 A	2021-May-21	367251	2033-Mar-20	
IN	2013-Mar-27	7594/CHENP/2014	2016-Jul-01	7594/CHENP/2014 A	2020-Nov-11	351405	2033-Mar-27	Yes
IN	2013-Apr-04	7650/CHENP/2014	2016-Jul-01	7650/CHENP/2014-A	2021-Nov-16	381904	2033-Apr-04	
IN	2013-Apr-26	8358/CHENP/2014	2016-Jul-01	8358/CHENP/2014 A	2020-Dec-30	354814	2033-Apr-26	
IN	2013-May-06	8578/CHENP/2014	2016-Jul-01	8578/CHENP/2014 A	2020-Dec-14	353609	2033-May-06	Yes
IN	2013-May-08	8362/CHENP/2014	2016-Jul-01	8362/CHENP/2014 A	2023-Nov-01	464725	2033-May-08	Yes
IN	2013-May-21	9062/CHENP/2014	2016-Jul-01	9062/CHENP/2014 A	2024-Jan-22	501671		Yes
IN	2013-May-22	9058/CHENP/2014	2016-Jul-01	9058/CHENP/2014 A	2023-Jul-20	439617	2033-May-22	
IN	2013-May-22	8981/CHENP/2014	2016-Jul-01	8981/CHENP/2014 A	2020-May-18	337015	2033-May-22	Yes
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IN	2013-Jun-18	135/CHENP/2015	2016-Jul-01	135/CHENP/2015 A	2023-Oct-04	456735	2033-Jun-18	Yes
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IN	2013-Jul-04	856/CHENP/2015	2016-Jul-01	856/CHENP/2015 A	2020-Dec-17	353893	2033-Jul-04	Yes
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IN	2013-Jul-15	952/CHENP/2015	2016-Jul-01	952/CHENP/2015 A	2021-Mar-05	360332	2033-Jul-15	Yes
IN	2013-Sep-17	1936/CHENP/2015			2019-Nov-13	324901	2033-Sep-17	
IN	2013-Oct-17	2974/CHENP/2015			2020-Oct-31	350614	2033-Oct-17	Yes
IN	2013-Dec-02	3977/CHENP/2015			2023-Nov-15	469267	2033-Dec-02	
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IN	2014-Jan-29	5190/CHENP/2015			2023-Mar-14	425045	2034-Jan-29	Yes
IN	2014-Feb-17	5443/CHENP/2015			2020-Oct-15	349309	2034-Feb-17	Yes
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IN	2014-Mar-12	6404/CHENP/2015			2022-Nov-29	412806	2034-Mar-12	Yes
IN	2014-Mar-12	6604/CHENP/2015			2021-Sep-30	378459	2034-Mar-12	
IN	2014-Apr-02	6862/CHENP/2015	2016-Aug-31	6862/CHENP/2015-A	2021-Mar-19	362175	2034-Apr-02	
IN	2014-Apr-21	7275/CHENP/2015			2023-Apr-18	429280	2034-Apr-21	Yes
IN	2014-Apr-21	7443/CHENP/2015			2022-Mar-21	392375	2034-Apr-21	Yes
IN	2014-Apr-30	7444/CHENP/2015			2021-Mar-24	362809	2034-Apr-30	Yes
IN	2014-Jun-04	7943/CHENP/2015			2023-Apr-17	429142	2034-Jun-04	
IN	2014-Jun-05	201647000305			2022-Mar-08	391422	2034-Jun-05	Yes
IN	2014-Jun-16	2886/CHENP/2015			2021-Jan-21	356353	2034-Jun-16	Yes
IN	2014-Jun-27	201647001861			2022-Oct-27	410034	2034-Jun-27	Yes
IN	2014-Jul-03	201647002052			2022-Apr-29	395937	2034-Jul-03	Yes
IN	2014-Jul-09	201647002051			2023-Jul-20	439598	2034-Jul-09	
IN	2014-Jul-16	201647002046			2023-Jun-28	436262	2034-Jul-16	Yes
IN	2014-Jul-23	201647002050			2022-Mar-11	391827	2034-Jul-23	
IN	2014-Aug-14	201647009495	2016-Aug-31	201647009495-A	2020-Dec-29	354726	2034-Aug-14	Yes
IN	2014-Aug-18	201647010323	2016-Aug-31	201647010323-A	2023-Apr-19	429336	2034-Aug-18	Yes
IN	2014-Aug-18	201647009320	2016-Aug-05	201647009320-A	2023-Jul-31	441726	2034-Aug-18	Yes
IN	2014-Aug-19	201647009319	2016-Aug-05	201647009319-A	2023-Aug-25	447353	2034-Aug-19	
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IN	2014-Aug-22	201647010326	2016-Aug-31	201647010326-A	2020-Aug-25	345080	2034-Aug-22	Yes
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IN	2014-Sep-15	201647013609	2016-Aug-31	201647013609-A	2020-Oct-15	349306	2034-Sep-15	Yes
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IN	2014-Oct-24	201647019677	2016-Aug-31	201647019677-A	2023-Apr-24	429864	2034-Oct-24	
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IN	2014-Nov-12	201647020701	2016-Aug-31	201647020701-A	2022-Jul-05	400833	2034-Nov-12	
IN	2014-Dec-05	201647022728	2016-Aug-31	201647022728-A	2021-Jul-26	372718	2034-Dec-05	Yes
IN	2014-Dec-11	201647000256			2022-Jun-24	399987	2034-Dec-11	Yes
IN	2014-Dec-23	4680/CHENP/2015			2021-Feb-25	359610	2034-Dec-23	
IN	2014-Dec-29	201647027501	2016-Sep-30	201647027501-A	2023-Sep-27	455408	2034-Dec-29	Yes
IN	2014-Dec-31	201647026613	2016-Aug-31	201647026613-A	2023-Jun-02	433642	2034-Dec-31	Yes

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IN	2015-Jan-15	201647029031	2016-Oct-07	201647029031-A	2023-Mar-14	425049	2035-Jan-15	Yes
IN	2015-Jan-21	201647029040	2016-Oct-07	201647029040-A	2021-Jul-27	372811	2035-Jan-21	Yes
IN	2015-Jan-26	201647029032	2016-Oct-07	201647029032-A				Yes
IN	2015-Jan-27	201647000259			2024-Mar-07	521990		Yes
IN	2015-Jan-30	201647029030	2016-Oct-07	201647029030-A	2022-Dec-07	413847	2035-Jan-30	Yes
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IN	2015-Mar-05	201647000261			2021-May-12	366575	2035-Mar-05	Yes
IN	2015-Mar-11	201647000262			2023-Feb-28	423616	2035-Mar-11	Yes
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IN	2015-Mar-17	201647035143	2016-Nov-25	201647035143-A	2023-Nov-13	468498	2035-Mar-17	Yes
IN	2015-Apr-28	201647042598	2016-Dec-30	201647042598-A	2020-Jun-02	337767	2035-Apr-28	Yes
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IN	2015-Jun-24	201747003833	2017-Jun-02	IN 201747003833	2022-May-17	396945	2035-Jun-24	
IN	2015-Jul-02	201647031807	2016-Nov-11	201647031807-A	2022-Dec-09	414060	2035-Jul-02	Yes
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IN	2015-Jul-14	201747006266	2017-Jun-02	CN 201747006266	2020-May-29	337566	2035-Jul-14	Yes
IN	2015-Jul-16	201747005670	2017-May-26	201747005670 A	2021-Jun-22	369939	2035-Jul-16	
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IN	2016-Mar-11	201817037341			2024-Feb-06	507496		Yes
IN	2016-Apr-04	201747038993	2017-Dec-15	IN 201747038993	2023-Jan-04	416773	2036-Apr-04	
IN	2016-Apr-07	201747039170	2017-Nov-24	IN 201747039170	2022-Sep-06	405822	2036-Apr-07	Yes
IN	2016-Apr-20	201747034432	2017-Oct-06	IN 201747034432	2021-Mar-09	360585	2036-Apr-20	
IN	2016-May-18	201747041817			2021-Jan-19	356112	2036-May-18	
IN	2016-Jun-08	201847001868	2018-Feb-02	IN 201847001868	2023-Nov-09	467772	2036-Jun-08	Yes
IN	2016-Aug-05	201847005553			2021-Jun-25	370282	2036-Aug-05	
IN	2016-Aug-24	201847007143			2023-Feb-27	423375	2036-Aug-24	Yes
IN	2016-Oct-17	201847011055			2021-Sep-16	377103	2036-Oct-17	Yes
IN	2016-Dec-01	201847013943			2023-Jan-18	418404	2036-Dec-01	Yes
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IN	2017-Mar-20	201847018476			2023-Jun-30	436477	2037-Mar-20	Yes
IN	2017-Apr-19	201847019458			2021-Feb-03	357679	2037-Apr-19	Yes
IN	2017-May-22	201847022776						Yes
IN	2017-Jul-27	201947008962			2022-Aug-03	402921	2037-Jul-27	Yes
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IN	2018-Feb-09	201947034850			2024-Jan-19	501097		Yes
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IT	1998-Jan-22	98900141.7	1999-Jan-13	EP 0890059	2004-Jun-23	0890059	2018-Jan-22	
IT	1998-Jul-28	98937339.4	2000-May-17	EP 1000295	2014-Jul-23	1000295	2018-Jul-28	
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IT	1999-Sep-03	99943116.6		EP 1110198	2003-Nov-05	1110198	2019-Sep-03	
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IT	1999-Sep-17	99948820.8		EP 1046196	2008-Jan-16	1046196	2019-Sep-17	
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IT	2001-Apr-24	07075990.7	2008-Feb-13	EP 1887836	2012-Mar-07	1887836	2021-Apr-24	
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IT	2001-Aug-14	01203099.5		EP 1182396	2009-Oct-14	1182396	2021-Aug-14	
IT	2001-Aug-31	01120981.4	2002-Mar-06	EP 1183964	2003-Nov-05	1183964	2021-Aug-31	
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IT	2002-Jan-14	02075145.9	2002-Jul-31	EP 1227559	2011-Jul-27	1227559	2022-Jan-14	
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IT	2002-May-30	02739485.7		EP 1393599	2010-May-05	1393599	2022-May-30	
IT	2002-Jun-21	02738518.6		EP 1405551	2008-Dec-10	1405551	2022-Jun-21	
IT	2002-Jul-23	02755430.2	2004-May-06	EP 1415345	2014-Apr-23	1415345	2022-Jul-23	
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IT	2002-Dec-19	02796002.0	2004-Sep-22	EP 1459600	2014-Feb-26	1459600	2022-Dec-19	
IT	2003-Aug-28	03791823.2		EP 1535495	2010-Jan-13	1535495	2023-Aug-28	
IT	2003-Nov-11	03758604.7		EP 1568255	2010-Mar-03	1568255	2023-Nov-11	

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IT	2003-Dec-11	03777081.5		EP 1576858	2008-Dec-03	1576858	2023-Dec-11	
IT	2003-Dec-11	03813686.7	2005-Sep-28	EP 1579735	2016-Mar-09	1579735	2023-Dec-11	
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IT	2004-Apr-21	20172248.5	2020-Oct-14	EP 3722533	2022-Oct-26	3722533	2024-Apr-21	
IT	2004-Apr-21	18182693.4	2018-Dec-26	EP 3419388	2020-Jun-17	3419388	2024-Apr-21	
IT	2004-Apr-21	20172270.9	2020-Oct-14	EP 3721959	2022-Nov-23	3721959	2024-Apr-21	
IT	2004-Apr-21	04760087.9	2006-Feb-01	EP 1620843	2015-Sep-02	1620843	2024-Apr-21	
IT	2004-May-05	18175690.9	2018-Dec-19	EP 3416460	2022-Oct-19	3416460	2024-May-05	
IT	2004-Sep-07	11171721.1	2011-Oct-05	EP 2372765	2020-Nov-11	2372765	2024-Sep-07	
IT	2004-Sep-21	04770043.0	2006-Jun-14	EP 1668622	2017-Apr-26	1668622	2024-Sep-21	
IT	2004-Nov-22	04811765.9		EP 1687692	2010-Apr-28	1687692	2024-Nov-22	
IT	2004-Dec-01	04801437.7	2006-Sep-06	EP 1698036	2019-Feb-20	1698036	2024-Dec-01	Yes
IT	2005-May-30	18167801.2	2018-Oct-03	EP 3383034	2019-Nov-06	3383034	2025-May-30	
IT	2005-May-30	19201299.5	2020-Mar-11	EP 3621301	2021-Apr-21	3621301	2025-May-30	
IT	2005-Jun-23	05759404.6	2007-Apr-25	EP 1776628	2011-Nov-30	1776628	2025-Jun-23	
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IT	2005-Aug-02	05772133.4	2007-May-09	EP 1782660	2011-Oct-12	1782660	2025-Aug-02	
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IT	2005-Sep-19	05783602.5	2007-Jul-11	EP 1805452	2014-Apr-23	1805452	2025-Sep-19	
IT	2005-Sep-19	14162998.0	2014-Oct-15	EP 2789894	2018-Dec-12	2789894	2025-Sep-19	
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IT	2005-Sep-19	20169373.6	2020-Oct-14	EP 3722665	2022-Jan-05	3722665	2025-Sep-19	
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IT	2005-Nov-09	05809900.3		EP 1815536	2011-Feb-09	1815536	2025-Nov-09	
IT	2005-Nov-23	05810845.7	2007-Aug-29	EP 1825717	2014-Jan-08	1825717	2025-Nov-23	
IT	2005-Dec-02	05815525.0		EP 1842399	2017-Oct-04	1842399	2025-Dec-02	
IT	2006-Jan-05	06701369.8	2007-Oct-24	EP 1846949	2018-Aug-22	1846949	2026-Jan-05	
IT	2006-Mar-08	06711045.2		EP 1862036	2008-Dec-31	1862036	2026-Mar-08	Yes
IT	2006-Apr-03	06716702.3	2007-Nov-29	EP 1869365	2013-Jun-12	1869365	2026-Apr-03	
IT	2006-Apr-19	06727966.1	2006-Nov-02	EP 1878319	2011-Nov-02	1878319	2026-Apr-19	
IT	2006-May-08	06770064.1	2008-Oct-29	EP 1984667	2017-Aug-23	1984667	2026-May-08	
IT	2006-May-11	06744912.4	2008-Feb-20	EP 1889518	2011-Dec-14	1889518	2026-May-11	
IT	2006-May-19	06741539.8	2008-Feb-27	EP 1891671	2020-Aug-19	1891671	2026-May-19	
IT	2006-May-23	06771039.2	2008-Mar-05	EP 1893912	2020-Dec-16	1893912	2026-May-23	
IT	2006-May-24	06765708.0		EP 1889519	2009-Mar-18	1889519	2026-May-24	
IT	2006-Jun-15	06765753.6	2008-Mar-12	EP 1897332	2015-Oct-14	1897332	2026-Jun-15	Yes
IT	2006-Jul-05	06766007.6	2008-Apr-02	EP 1905273	2012-Apr-18	1905273	2026-Jul-05	
IT	2006-Aug-15	06795657.3	2008-May-21	EP 1922575	2011-May-25	1922575	2026-Aug-15	Yes
IT	2006-Aug-22	06795730.8	2008-May-21	EP 1922902	2018-Oct-10	1922902	2026-Aug-22	
IT	2006-Sep-15	06775996.9	2008-Jul-02	EP 1938666	2012-May-30	1938666	2026-Sep-15	
IT	2006-Sep-15	06821092.1	2008-Jun-18	EP 1932178	2012-Feb-08	1932178	2026-Sep-15	
IT	2006-Oct-02	06809462.2	2008-Jun-25	EP 1935085	2012-Mar-28	1935085	2026-Oct-02	
IT	2006-Oct-11	06812715.8	2008-Jul-02	EP 1938298	2012-Jun-13	1938298	2026-Oct-11	
IT	2006-Oct-11	14166066.2	2014-Sep-17	EP 2779146	2017-Jul-26	2779146	2026-Oct-11	
IT	2006-Oct-11	11173044.6	2011-Nov-30	EP 2390866	2016-Sep-28	2390866	2026-Oct-11	
IT	2006-Oct-24	06809677.5	2008-Aug-20	EP 1957857	2011-Oct-12	1957857	2026-Oct-24	
IT	2006-Nov-13	06821415.4	2008-Aug-06	EP 1952055	2019-Jan-09	1952055	2026-Nov-13	
IT	2006-Nov-20	06821499.8		EP 1954975	2012-Jan-11	1954975	2026-Nov-20	
IT	2006-Dec-11	06832203.1		EP 1963735	2010-Sep-29	1963735	2026-Dec-11	
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IT	2006-Dec-13	06842470.4	2008-Sep-10	EP 1967050	2011-Nov-02	1967050	2026-Dec-13	Yes
IT	2006-Dec-13	06842469.6	2008-Sep-10	EP 1966624	2011-Jun-29	1966624	2026-Dec-13	
IT	2006-Dec-13	11155525.6	2011-May-25	EP 2325670	2017-Oct-25	2325670	2026-Dec-13	
IT	2007-Mar-02	07713186.0	2008-Dec-03	EP 1997352	2018-Oct-24	1997352	2027-Mar-02	
IT	2007-Apr-20	07735597.2	2009-Jan-21	EP 2016804	2011-Jun-29	2016804	2027-Apr-20	
IT	2007-May-02	07735739.0	2009-Jan-28	EP 2018795	2016-Dec-14	2018795	2027-May-02	
IT	2007-May-31	07736055.0	2009-Mar-04	EP 2030483	2015-Oct-21	2030483	2027-May-31	
IT	2007-May-31	15177109.4	2016-Mar-23	EP 2999314	2020-Nov-18	2999314	2027-May-31	
IT	2007-May-31	15177099.7	2016-Apr-27	EP 3013124	2017-Jul-12	3013124	2027-May-31	
IT	2007-Jun-19	07789721.3	2009-Mar-25	EP 2039069	2017-Apr-05	2039069	2027-Jun-19	
IT	2007-Jun-20	07789748.6	2009-Mar-25	EP 2039227	2018-Mar-21	2039227	2027-Jun-20	
IT	2007-Jul-05	07825886.0		EP 2052181	2010-Mar-31	2052181	2027-Jul-05	
IT	2007-Aug-09	07836669.7	2009-Nov-18	EP 2119318	2013-Oct-16	2119318	2027-Aug-09	
IT	2007-Sep-18	07826418.1	2009-Jul-01	EP 2074865	2017-Jan-11	2074865	2027-Sep-18	Yes
IT	2007-Sep-20	07826476.9		EP 2074866	2011-Mar-02	2074866	2027-Sep-20	
IT	2007-Oct-12	07826733.3	2009-Jul-29	EP 2082167	2017-Feb-22	2082167	2027-Oct-12	
IT	2007-Oct-19	07861452.6	2009-Aug-12	EP 2087776	2014-Dec-10	2087776	2027-Oct-19	
IT	2007-Oct-31	07816094.2	2009-Aug-12	EP 2087772	2017-Sep-06	2087772	2027-Oct-31	
IT	2007-Nov-06	07826984.2		EP 2082620	2010-Jul-28	2082620	2027-Nov-06	
IT	2007-Nov-08	07827030.3		EP 2084945	2010-Mar-31	2084945	2027-Nov-08	
IT	2007-Nov-09	07840007.4		EP 2082621	2010-Jul-14	2082621	2027-Nov-09	
IT	2007-Nov-27	07849266.7	2009-Aug-26	EP 2092669	2013-Jun-26	2092669	2027-Nov-27	
IT	2007-Nov-27	07862228.9	2009-Aug-19	EP 2089656	2011-Mar-02	2089656	2027-Nov-27	
IT	2007-Dec-07	07849372.3	2009-Sep-23	EP 2103190	2012-Oct-17	2103190	2027-Dec-07	
IT	2008-Mar-03	08719540.0	2009-Nov-18	EP 2117648	2015-Aug-26	2117648	2028-Mar-03	Yes
IT	2008-Mar-12	08743813.1		EP 2135487	2018-Aug-01	2135487	2028-Mar-12	
IT	2008-Mar-14	18192950.6		EP 3445021	2020-Aug-05	3445021	2028-Mar-14	Yes
IT	2008-Mar-31	08737675.2	2010-Jan-13	EP 2143303	2012-Aug-08	2143303	2028-Mar-31	
IT	2008-Apr-04	08737714.9		EP 2135005	2010-Oct-06	2135005	2028-Apr-04	
IT	2008-Apr-28	08738006.9	2010-Jan-27	EP 2147576	2014-Apr-16	2147576	2028-Apr-28	
IT	2008-May-01	14195242.4	2015-Apr-22	EP 2863104	2019-Jul-10	2863104	2028-May-01	
IT	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-02	
IT	2008-May-05	08738079.6	2010-Jan-27	EP 2147349	2013-Jul-17	2147349	2028-May-05	
IT	2008-May-22	08751309.9	2010-Mar-24	EP 2164568	2016-Feb-24	2164568	2028-May-22	Yes
IT	2008-Jun-23	08763422.6	2010-Mar-17	EP 2163132	2013-Oct-09	2163132	2028-Jun-23	
IT	2008-Aug-14	08789608.0		EP 2181565	2011-Apr-27	2181565	2028-Aug-14	





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## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
IT	2013-May-22	13736961.7	2015-Apr-08	EP 2856490	2016-Mar-09	2856490	2033-May-22	
IT	2013-Jun-18	13758989.1	2015-May-06	EP 2868162	2019-Mar-06	2868162	2033-Jun-18	Yes
IT	2013-Jun-26	13762232.0	2015-May-06	EP 2868163	2020-May-06	2868163	2033-Jun-26	
IT	2013-Jul-04	13763118.0	2015-May-27	EP 2875700	2018-Mar-14	2875700	2033-Jul-04	Yes
IT	2013-Jul-09	13766683.0	2015-May-20	EP 2873302	2021-May-12	2873302	2033-Jul-09	Yes
IT	2013-Jul-12	13765494.3	2015-May-20	EP 2873299	2019-Jan-09	2873299	2033-Jul-12	
IT	2013-Jul-15	13765790.4	2015-Jun-03	EP 2878173	2019-Mar-06	2878173	2033-Jul-15	Yes
IT	2013-Aug-28	13792978.2	2015-Jul-29	EP 2898755	2021-May-19	2898755	2033-Aug-28	Yes
IT	2013-Sep-17	13799377.0	2015-Jul-29	EP 2898265	2016-Dec-07	2898265	2033-Sep-17	
IT	2013-Oct-17	13818799.2	2015-Sep-02	EP 2912367	2018-Jan-03	2912367	2033-Oct-17	Yes
IT	2013-Dec-05	13818438.7	2015-Oct-14	EP 2929238	2018-Feb-21	2929238	2033-Dec-05	
IT	2013-Dec-05	13818440.3	2015-Oct-14	EP 2929239	2018-Mar-28	2929239	2033-Dec-05	Yes
IT	2014-Mar-12	14713924.0	2016-Feb-03	EP	2017-Feb-22	2979023	2034-Mar-12	
IT	2014-Apr-02	14718773.6	2016-Feb-10	EP 2982221	2021-Aug-04	2982221	2034-Apr-02	
IT	2014-Apr-21	14718971.6	2016-Mar-16	EP 2994696	2022-Oct-05	2994696	2034-Apr-21	Yes
IT	2014-Apr-21	14719284.3	2016-Mar-09	EP 2992733	2018-Dec-26	2992733	2034-Apr-21	Yes
IT	2014-Apr-30	14721344.1	2016-Mar-09	EP 2992742	2018-Dec-05	2992742	2034-Apr-30	Yes
IT	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
IT	2014-Jun-05	14728560.5	2016-Apr-20	EP 3008973	2019-Aug-28	3008973	2034-Jun-05	Yes
IT	2014-Jun-16	14730167.5	2015-Aug-19	EP 2907365	2016-Sep-21	2907365	2034-Jun-16	Yes
IT	2014-Jun-27	14733638.2	2016-May-11	EP	2017-Apr-05	3017661	2034-Jun-27	Yes
IT	2014-Jul-09	14738810.2	2016-Jun-08	EP	2017-Feb-22	3028541	2034-Jul-09	
IT	2014-Jul-23	14741900.6	2016-Jun-08	EP 3028543	2018-Jan-17	3028543	2034-Jul-23	
IT	2014-Aug-18	EP14752339.3	2016-Mar-16	EP 2995174	2016-Oct-12	2995174	2034-Aug-18	Yes
IT	2014-Aug-19	19172206.5	2019-Oct-16	EP 3554198	2021-Apr-07	3554198	2034-Aug-19	
IT	2014-Aug-19	14786281.7	2016-Jun-29	EP 3036976	2019-Oct-09	3036976	2034-Aug-19	
IT	2014-Aug-22	14796256.7	2016-Jul-06	EP 3039947	2019-Dec-11	3039947	2034-Aug-22	Yes
IT	2014-Aug-29	14757933.8	2016-Mar-02	EP 2989864	2016-Oct-12	2989864	2034-Aug-29	Yes
IT	2014-Sep-15	EP14765950.2	2016-Aug-03	EP 3050402	2017-Dec-06	3050402	2034-Sep-15	Yes
IT	2014-Oct-08	EP14786822.8	2016-Aug-17	EP 3055022	2018-Aug-08	3055022	2034-Oct-08	Yes
IT	2014-Oct-14	14793310.5	2016-Aug-24	EP 3058794	2018-Aug-29	3058794	2034-Oct-14	
IT	2014-Oct-28	14904216.0	2016-Aug-10	EP 3053413	2019-Feb-13	3053413	2034-Oct-28	
IT	2014-Dec-05	EP14815599.7	2016-Oct-12	EP 3078243	2019-Feb-27	3078243	2034-Dec-05	Yes
IT	2014-Dec-23	14819015.0	2015-Oct-28	EP 2935980	2016-Jun-15	2935980	2034-Dec-23	
IT	2014-Dec-31	14827552.2	2016-Nov-16	EP 3092870	2019-Feb-20	3092870	2034-Dec-31	Yes
IT	2015-Jan-06	15700959.8	2016-Jul-13	EP 3042548	2017-May-31	3042548	2035-Jan-06	Yes
IT	2015-Jan-21	15701166.9	2016-Dec-07	EP	2022-Dec-21	3099972	2035-Jan-21	Yes
IT	2015-Jan-27	EP15703247.5	2016-Oct-19	EP 3080512	2017-Jun-07	3080512	2035-Jan-27	Yes
IT	2015-Jan-30	19155288.4	2019-Jul-17	EP 3511918	2023-May-17	3511918	2035-Jan-30	Yes
IT	2015-Jan-30	15702252.6	2016-Dec-07	EP	2019-Mar-13	3100250	2035-Jan-30	Yes
IT	2015-Feb-09	15710002.5	2017-Jan-04	EP	2019-Jan-30	3111727	2035-Feb-09	Yes
IT	2015-Feb-16	15711291.3	2017-Jan-04	EP	2020-Jan-01	3111729	2035-Feb-16	
IT	2015-Feb-23	EP15706017.9	2016-Aug-31	EP	2017-Apr-12	3061320	2035-Feb-23	
IT	2015-Mar-11	16190614.4	2017-May-10	3165809-A	2021-Sep-29	3165809	2035-Mar-11	Yes
IT	2015-Mar-11	15709474.9	2016-Mar-02	EP 2989373	2016-Nov-16	2989373	2035-Mar-11	Yes
IT	2015-Apr-28	EP15727463.0	2017-Mar-22	EP	2019-Aug-14	3143842	2035-Apr-28	Yes
IT	2015-May-27	15726916.8	2017-Apr-19	3155875-A	2017-Dec-27	3155875	2035-May-27	Yes
IT	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
IT	2015-Jun-08	15725683.5	2016-Aug-17	EP	2017-Apr-05	3056066	2035-Jun-08	
IT	2015-Jul-02	15733747.8	2016-Dec-14	EP	2017-Jun-07	3102870	2035-Jul-02	Yes
IT	2015-Jul-08	15734685.9	2017-May-24	3170373-A	2020-Sep-09	3170373	2035-Jul-08	Yes
IT	2015-Jul-15	EP15176831.4	2016-Feb-17	EP 2985510	2017-Jun-28	2985510	2035-Jul-15	Yes
IT	2015-Aug-27	1571313.2	2017-Jul-05	EP3186552	2020-Aug-12	3186552	2035-Aug-27	Yes
IT	2015-Sep-18	15771881.8	2017-Aug-09	EP 3201696	2023-Jul-26	3201696	2035-Sep-18	Yes
IT	2015-Sep-30	EP15784476.2	2017-Aug-09	EP 3201524	2018-Feb-28	3201524	2035-Sep-30	
IT	2015-Oct-27	EP15785108.0	2017-Sep-13	EP 3216316	2018-Feb-07	3216316	2035-Oct-27	Yes
IT	2015-Nov-03	15790913.6	2017-Sep-13	EP 3216317	2020-Jan-08	3216317	2035-Nov-03	
IT	2016-Mar-07	16158975.9			2020-Dec-16	3065510	2036-Mar-07	Yes
IT	2016-Mar-11	19172759.3			2022-Nov-16	3570643	2036-Mar-11	Yes
IT	2016-Apr-04	16713475.8	2018-Feb-14	EP 3281270	2019-Jan-09	3281270	2036-Apr-04	
IT	2016-May-18	EP16170050.5	2016-Dec-07	EP 3102003	2017-Aug-16	3102003	2036-May-18	
IT	2016-Jun-08	16732481.3	2018-Apr-25	EP 3311632	2020-Feb-26	3311632	2036-Jun-08	Yes
IT	2016-Aug-05	18154729.0	2018-Jul-25	EP 3351851	2019-Oct-09	3351851	2036-Aug-05	
IT	2016-Oct-17	16784470.3	2018-Aug-29	EP 3366084	2021-Apr-14	3366084	2036-Oct-17	Yes
IT	2016-Dec-01	16805415.3	2018-Oct-24	EP 3391711	2019-Jul-31	3391711	2036-Dec-01	Yes
IT	2017-Mar-20	17710760.4	2019-Jan-30	EP 3434074	2020-May-06	3434074	2037-Mar-20	Yes
IT	2017-Apr-19	17718888.5	2019-Feb-27	EP 3446552	2019-Nov-06	3446552	2037-Apr-19	Yes
IT	2017-May-22	17724576.8	2019-Apr-17	EP 3469255	2020-Aug-19	3469255	2037-May-22	Yes
IT	2017-Aug-04	17837750.3	2019-Jun-12	EP3494342	2021-Dec-08	3494342	2037-Aug-04	Yes
IT	2017-Dec-18	17816839.9	2019-Jun-26	EP 3500792	2020-Feb-12	3500792	2037-Dec-18	
IT	2017-Dec-18	20151415.5	2020-Jun-24	EP 3671010	2021-Nov-10	3671010	2037-Dec-18	
IT	2018-Feb-09	18156037.6	2018-Aug-15	EP 3361148	2019-Sep-18	3361148	2038-Feb-09	Yes
IT	2018-Feb-19	18704570.3	2020-Jan-08	EP 3590149	2020-Sep-09	3590149	2038-Feb-19	Yes
IT	2019-Oct-21	19787278.1	2021-Sep-08	EP 3874196	2022-Dec-28	3874196	2039-Oct-21	Yes
JP	1997-Aug-08	98-512405	2007-Mar-14	P3892909	2006-Dec-15	3892909	2017-Aug-08	
JP	1997-Sep-08	98-518128	2000-Feb-29	JP 2000502500	2007-Nov-16	4040688	2017-Sep-08	
JP	1998-Jan-22	98-529200	2000-Jun-06	JP 2000507042	2007-Sep-21	4014227	2018-Jan-22	
JP	1998-Jul-14	2000-501644			2010-Aug-27	4574842	2018-Jul-14	
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JP	1998-Jul-27	99-510721	2001-Jan-30	JP 2001501363	2009-Jan-09	4240546	2018-Jul-27	
JP	1998-Aug-26	2003-028908	2004-Jan-08	JP 2004006253	2008-Dec-12	4230236	2018-Aug-26	
JP	1998-Dec-17	09-051067			2012-Sep-07	5081181	2018-Dec-17	
JP	1998-Dec-17	00-539392	2004-Apr-15	JP 2004511878	2011-Apr-08	4718008	2018-Dec-17	
JP	1998-Dec-17	2011-86460			2016-Jan-08	5864881	2018-Dec-17	
JP	1998-Dec-17	2007-186183	2008-Feb-14	JP 2008034385	2010-Feb-05	4451899	2018-Dec-17	
JP	1998-Dec-17	2015-090463			2016-Jul-08	5963287	2018-Dec-17	
JP	1998-Dec-17	2014-115668			2015-Jul-10	5775953	2018-Dec-17	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
JP	1999-Sep-08	00-572611	2002-Aug-13	JP 2002525836	2009-Sep-18	4376464	2019-Sep-08	
JP	1999-Sep-17	2000-572951	2003-Oct-07	JP 2003529889	2009-Aug-28	4366016	2019-Sep-17	
JP	1999-Dec-02	08-75819	2008-Aug-28	JP 2008198618	2010-Dec-10	4642870	2019-Dec-02	
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JP	2000-Jun-22	2013-169211			2015-Dec-18	5854406	2020-Jun-22	
JP	2000-Jun-22	11-001641			2013-Nov-22	5415463	2020-Jun-22	
JP	2000-Jun-22	2001-506414	2003-Jan-28	JP 2003503815	2011-Jun-24	4768179	2020-Jun-22	
JP	2000-Jul-14	2001-510276	2003-Feb-04	JP 2003504829	2008-Dec-12	4230145	2020-Jul-14	
JP	2000-Aug-07	01-520040	2003-Mar-04	JP 2003508798	2012-Jul-27	5048190	2020-Aug-07	
JP	2000-Sep-15	01-527610	2003-Mar-18	JP 2003511006	2010-Apr-30	4502353	2020-Sep-15	
JP	2000-Oct-10	01-534928	2003-Apr-08	JP 2003513453	2012-Jan-20	4908709	2020-Oct-10	
JP	2000-Oct-12	01-534929	2003-Apr-08	JP 2003513420	2011-Apr-28	4731079	2020-Oct-12	
JP	2000-Oct-12	01-534931	2003-Apr-08	JP 2003513454	2012-Jan-20	4908710	2020-Oct-12	
JP	2000-Dec-14	01-550730	2003-Jun-24	JP 2003519810	2011-May-13	4741142	2020-Dec-14	
JP	2000-Dec-18	01-552019	2003-Jun-24	JP 2003519896	2010-Nov-05	4620924	2020-Dec-18	
JP	2001-Jan-08	01-557340	2003-Jul-22	JP 2003522393	2011-Apr-28	4731085	2021-Jan-08	
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JP	2001-Apr-24	2014-011181			2015-Jun-12	5758020	2021-Apr-24	
JP	2001-Jun-21	2002-504188	2004-Jan-15	JP 2004501497	2011-Jul-01	4773673	2021-Jun-21	
JP	2001-Aug-20	01-248530	2002-Apr-26	JP 2002124104	2011-May-27	4749623	2021-Aug-20	
JP	2001-Sep-05	02-526803	2004-Mar-25	JP 2004509431	2011-May-27	4749653	2021-Sep-05	
JP	2001-Nov-09	02-543265	2004-May-13	JP 2004514252	2009-Apr-17	4294954	2021-Nov-09	
JP	2001-Dec-03	02-549030	2004-May-27	JP 2004515891	2008-Apr-25	4116435	2021-Dec-03	
JP	2001-Dec-06	02-551327	2004-Jun-03	JP 2004516666	2009-Apr-03	4287651	2021-Dec-06	
JP	2001-Dec-06	2008-184176	2008-Dec-04	JP 2008293987	2011-Mar-18	4705132	2021-Dec-06	
JP	2001-Dec-12	02-553873	2004-Jun-10	JP 2004517445	2008-Mar-14	4094952	2021-Dec-12	
JP	2001-Dec-20	03-504009	2004-Sep-30	JP 2004530276	2009-Dec-18	4427320	2021-Dec-20	
JP	2002-Mar-14	02-573484	2004-Jul-02	JP 2004519826	2008-Apr-25	4117196	2022-Mar-14	
JP	2002-May-10	2002-588729	2005-Apr-07	JP 2005509245	2008-Oct-31	4208576	2022-May-10	
JP	2002-May-24	02-592686	2004-Sep-02	JP 2004527138	2011-Jan-07	4657579	2022-May-24	
JP	2002-May-30	2003-501242	2005-Apr-14	JP 2005510007	2009-Jul-31	4351040	2022-May-30	
JP	2002-May-30	2007-320844	2008-Apr-03	JP 2008078162	2010-Mar-12	4474457	2022-May-30	
JP	2002-Jun-05	2003-502812	2004-Nov-11	JP 2004534355	2008-Aug-22	4173091	2022-Jun-05	
JP	2002-Jul-18	03-514856	2004-Dec-02	JP 2004536433	2008-Jun-13	4139326	2022-Jul-18	
JP	2002-Aug-09	03-521671	2005-Jan-06	JP 2005500680	2009-Aug-21	4360903	2022-Aug-09	
JP	2002-Sep-17	09-29980			2013-Feb-15	5198310	2022-Sep-17	
JP	2002-Sep-17	2003-529819	2005-Feb-10	JP 2005504411	2010-May-28	4518793	2022-Sep-17	
JP	2002-Sep-30	03-535510	2005-Feb-24	JP 2005505940	2009-May-29	4317751	2022-Sep-30	
JP	2002-Nov-15	03-550561	2005-Apr-28	JP 2005512334	2009-Aug-07	4353804	2022-Nov-15	
JP	2002-Dec-09	03-557260	2005-May-12	JP 2005513754	2011-Jan-28	4672259	2022-Dec-09	
JP	2003-Feb-06	03-568937	2005-Jun-16	JP 2005518102	2010-Nov-26	4633363	2023-Feb-06	
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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
JP	2005-Nov-28	2007-543952			2014-Sep-19	5616000	2025-Nov-28	
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JP	2008-May-26	2010-509933			2013-Jun-14	5290279	2028-May-26	
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JP	2010-Oct-07	2012-532598	2013-Mar-04	JP 2013507729	2016-May-20	5935063	2030-Oct-07	
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JP	2010-Oct-07	2016-077619	2016-Aug-12	2016-146358	2019-Jun-21	6541606		
JP	2010-Oct-29	2012-536003			2015-Oct-02	5812996	2030-Oct-29	Yes

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## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
JP	2010-Oct-29	2012-536002			2017-Jun-09	6155027	2030-Oct-29	
JP	2010-Nov-04	2010247918						
JP	2010-Nov-04	2010247941						
JP	2010-Nov-04	2010-247916						
JP	2010-Nov-22	2012-542649			2015-Feb-13	5694364	2030-Nov-22	
JP	2010-Nov-30	2012-542655			2015-Apr-17	5732070	2030-Nov-30	
JP	2010-Dec-10	2012-543954			2015-Feb-13	5694368	2030-Dec-10	
JP	2011-Feb-28	2012-555527			2017-Apr-14	6125233	2031-Feb-28	
JP	2011-Feb-28	2015-087779			2018-Mar-02	6298006	2031-Feb-28	
JP	2011-Mar-11	2013-500621	2013-Jun-17	JP 2013524408	2015-Nov-13	5837036	2031-Mar-11	
JP	2011-Apr-01	2013-503201			2015-Apr-17	5732127	2031-Apr-01	
JP	2011-Apr-06	2011-084944						
JP	2011-Apr-22	2013-506786			2015-Oct-30	5829676	2031-Apr-22	
JP	2011-Apr-26	2013-508590			2015-Aug-14	5792288	2031-Apr-26	
JP	2011-Apr-27	JP2011099534A	2012-Nov-22	JP2012230858	2013-Oct-30	5331154		Yes
JP	2011-Jun-16	2013-514826			2016-May-20	5935065	2031-Jun-16	
JP	2011-Jun-20	2013-517608			2016-Feb-12	5881220	2031-Jun-20	Yes
JP	2011-Jun-30	2013-517640			2016-Aug-12	5984804	2031-Jun-30	
JP	2011-Jul-14	2013-520259			2016-Nov-25	6047488	2031-Jul-14	
JP	2011-Aug-05	2013-526571			2018-Mar-30	6312435	2031-Aug-05	
JP	2011-Sep-05	2013-527715			2015-Dec-11	5850938	2031-Sep-05	Yes
JP	2011-Oct-12	2013-534414			2016-Feb-26	5890838	2031-Oct-12	Yes
JP	2011-Nov-04	2012-509416	2014-May-12	JP 2012060106	2012-Jul-27	5049414	2031-Nov-04	
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JP	2011-Nov-22	2013-541448			2017-Jun-30	5165059	2031-Nov-22	
JP	2011-Nov-30	2011-262481	2013-Jun-10	JP 2013115003	2013-Nov-15	5411918		Yes
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JP	2012-Mar-28	2014-501792			2017-Mar-31	6118312	2032-Mar-28	Yes
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JP	2012-Jul-24	2014-522188			2017-Sep-01	6198733	2032-Jul-24	
JP	2012-Jul-31	2014-518062			2017-Mar-17	6110849	2032-Jul-31	Yes
JP	2012-Aug-02	2014-524471			2017-Jan-13	6072793	2032-Aug-02	Yes
JP	2012-Aug-03	2014-524128	2014-Oct-02	2014-526123	2017-Jan-06	6067702	2032-Aug-03	Yes
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JP	2012-Nov-20	2012-254536	2013-Feb-14	JP 2013033768	2013-Jul-05	5307283		
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JP	2013-Jan-02	2014-548329			2015-Dec-18	5857138	2033-Jan-02	
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JP	2013-Jan-18	2014-555348			2018-Sep-28	6407724	2033-Jan-18	
JP	2013-Jan-25	2014-555360			2015-Jun-19	5763851	2033-Jan-25	
JP	2013-Jan-30	2014-556163			2017-Sep-01	6199903	2033-Jan-30	Yes
JP	2013-Feb-08	2014-556179			2015-Jul-03	5770392	2033-Feb-08	
JP	2013-Feb-22	2014-558257			2017-Dec-08	6255356	2033-Feb-22	
JP	2013-Feb-22	2014-560472			2017-Feb-10	6087960	2033-Feb-22	
JP	2013-Mar-04	2014-560487			2017-Sep-29	6214572	2033-Mar-04	Yes
JP	2013-Mar-06	2014-561555			2017-Oct-27	6231026	2033-Mar-06	Yes
JP	2013-Mar-07	2014-557164			2015-Jul-03	5770393	2033-Mar-07	
JP	2013-Mar-08	2015-501013			2017-Nov-17	6243397	2033-Mar-08	
JP	2013-Mar-11	2015-501015			2019-Sep-06	6581500		
JP	2013-Mar-27	2015-503966			2018-Feb-23	6293729	2033-Mar-27	Yes
JP	2013-Apr-04	2015-503977			2018-Jul-06	6363061	2033-Apr-04	
JP	2013-Apr-26	2015-510907			2017-Sep-29	6214632	2033-Apr-26	
JP	2013-May-06	2015-512160			2018-Aug-24	6389457	2033-May-06	Yes

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
JP	2013-May-08	2015-510927			2018-May-11	6333807	2033-May-08	Yes
JP	2013-May-08	2015-510926			2017-Aug-04	6185987	2033-May-08	Yes
JP	2013-May-22	2015-515607			2017-Apr-14	6125620	2033-May-22	
JP	2013-May-22	2015-514637			2017-Sep-08	6203833	2033-May-22	Yes
JP	2013-May-28	2015-514648			2017-Apr-28	6133410	2033-May-28	Yes
JP	2013-Jun-17	2015-519397			2015-Jul-31	5785673	2033-Jun-17	
JP	2013-Jun-18	2015-519412			2017-Jun-30	6165245	2033-Jun-18	Yes
JP	2013-Jun-26	2015-519440			2018-Jun-01	6346176	2033-Jun-26	
JP	2013-Jul-04	2015-522199			2018-Jun-22	6357152	2033-Jul-04	Yes
JP	2013-Jul-08	2015-521115			2016-Nov-04	6032775	2033-Jul-08	Yes
JP	2013-Jul-10	2015-521128			2017-Oct-20	6228602	2033-Jul-10	
JP	2013-Jul-12	2015-522213			2018-Oct-12	6416087	2033-Jul-12	Yes
JP	2013-Jul-12	2015-522217			2018-Jan-12	6272323	2033-Jul-12	
JP	2013-Jul-15	2015-523634			2018-Jan-12	6271544	2033-Jul-15	Yes
JP	2013-Aug-28	2015-532534			2018-Jan-12	6271556	2033-Aug-28	Yes
JP	2013-Sep-17	2015-531676			2017-Dec-08	6255407	2033-Sep-17	
JP	2013-Sep-24	2015-532566			2017-Dec-08	6255410	2033-Sep-24	
JP	2013-Oct-17	2015-538596			2017-Dec-01	6250687	2033-Oct-17	Yes
JP	2013-Dec-02	2015-547213			2018-Mar-30	6312699	2033-Dec-02	
JP	2013-Dec-05	2015-546136			2018-May-25	6342415	2033-Dec-05	
JP	2013-Dec-05	2015-546137			2018-Jun-15	6352292	2033-Dec-05	Yes
JP	2014-Jan-03	2015-551241			2019-Mar-15	6495180	2034-Jan-03	Yes
JP	2014-Jan-29	2015-554298			2018-Nov-16	6434919	2034-Jan-29	Yes
JP	2014-Feb-17	2015-557556			2018-Aug-24	6387971	2034-Feb-17	Yes
JP	2014-Mar-12	2016-503746			2018-Oct-12	6416198	2034-Mar-12	Yes
JP	2014-Apr-02	2016-505915			2018-Aug-10	6382940	2034-Apr-02	
JP	2014-Apr-21	2016-511001			2018-Sep-07	6396431	2034-Apr-21	Yes
JP	2014-Jun-04	2015-563036			2016-Dec-16	6058828	2034-Jun-04	
JP	2014-Jun-05	2016-517591			2018-Oct-26	6422951	2034-Jun-05	Yes
JP	2014-Jun-16	2015-543484			2018-Jun-22	6356688	2034-Jun-16	Yes
JP	2014-Jun-27	2016-522532			2019-Jul-26	6560666		Yes
JP	2014-Jun-27	2019-133733			2021-Apr-01	6861766		Yes
JP	2014-Jul-03	2016-530401			2018-May-18	6339195	2034-Jul-03	Yes
JP	2014-Jul-09	2016-516053			2017-Apr-28	6133500	2034-Jul-09	
JP	2014-Jul-16	2016-528424			2019-Sep-20	6588430		Yes
JP	2014-Jul-23	2016-530436			2018-Aug-31	6391690	2034-Jul-23	
JP	2014-Aug-14	2015-563164			2017-Apr-14	6125675	2034-Aug-14	Yes
JP	2014-Aug-18	2015-563158			2017-Feb-24	6096331	2034-Aug-18	Yes
JP	2014-Aug-18	2016-516078			2017-Jan-13	6072982	2034-Aug-18	Yes
JP	2014-Aug-19	2020-053717			2022-Jun-09	7086126		
JP	2014-Aug-19	2016-535548			2020-Mar-27	6682434		
JP	2014-Aug-22	2016-537411			2019-Dec-13	6629205		Yes
JP	2014-Aug-29	2015-563052			2016-Aug-12	5985090	2034-Aug-29	Yes
JP	2014-Sep-15	2016-543368			2019-Mar-01	6486944	2034-Sep-15	Yes
JP	2014-Oct-08	2016-520642			2019-Feb-15	6479781	2034-Oct-08	Yes
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JP	2014-Oct-24	2016-527350			2019-Jan-11	6461950	2034-Oct-24	
JP	2014-Oct-24	2018-242761			2020-Nov-02	6787989		
JP	2014-Oct-28	2016-524566	2017-Jan-19	JP 201752448	2018-Feb-16	6289628	2034-Oct-28	
JP	2014-Nov-04	2016-526196			2017-Apr-28	6133505	2034-Nov-04	Yes
JP	2014-Nov-12	2016-532110			2019-Mar-15	6493924	2034-Nov-12	
JP	2014-Dec-05	2016-536244			2019-Mar-15	6495911	2034-Dec-05	Yes
JP	2014-Dec-11	2015-563022			2017-Oct-13	6223479	2034-Dec-11	Yes
JP	2014-Dec-23	2015-560730			2016-Nov-25	6045725	2034-Dec-23	
JP	2014-Dec-29	2016-546458			2018-Jan-26	6279749	2034-Dec-29	Yes
JP	2014-Dec-31	2016-544812			2018-Oct-12	6416915	2034-Dec-31	Yes
JP	2015-Jan-06	2016-537455			2017-Oct-13	6223576	2035-Jan-06	Yes
JP	2015-Jan-15	2016-548663			2020-Apr-07	6688223		Yes
JP	2015-Jan-21	2016-548659			2017-Jun-30	6165351	2035-Jan-21	Yes
JP	2015-Jan-26	2016-548665			2019-Oct-18	6603228		Yes
JP	2015-Feb-09	2016-553829			2019-Aug-02	6564387		Yes
JP	2015-Feb-13	2016-553842			2020-May-12	6703487		Yes
JP	2015-Feb-16	2016-553877			2021-Feb-08	6835588		
JP	2015-Feb-16	2019-191708			2022-Feb-04	7019653		
JP	2015-Feb-23	2016-553018			2018-Apr-13	6321192	2035-Feb-23	
JP	2015-Mar-05	2016-508199			2017-Jul-14	6173562	2035-Mar-05	Yes
JP	2015-Mar-11	2015-563050			2018-Oct-26	6422896	2035-Mar-11	Yes
JP	2015-Mar-11	2017-144825			2018-Jun-01	6345852	2035-Mar-11	Yes
JP	2015-Mar-12	2016-558703			2018-Jan-05	6266126	2035-Mar-12	Yes
JP	2015-Mar-17	2016-557639			2019-Nov-15	6617113		Yes
JP	2015-Apr-28	2016-567214			2020-Apr-24	6695811		Yes
JP	2015-May-27	2016-571727			2017-Sep-08	6203972	2035-May-27	Yes
JP	2015-Jun-08	2016-544400			2017-Apr-28	6133514	2035-Jun-08	
JP	2015-Jun-24	2016-575337			2019-Apr-26	6516304		
JP	2015-Jul-02	2016-567817			2018-Mar-16	6306214	2035-Jul-02	Yes
JP	2015-Jul-06	2017-500350			2019-Dec-27	6636497		Yes
JP	2015-Jul-08	2017-502590			2019-Sep-13	6584491		Yes
JP	2015-Jul-10	2017-503536			2017-Aug-10	6190560	2035-Jul-10	Yes
JP	2015-Jul-10	2017-502588			2020-Jul-22	6738796		Yes
JP	2015-Jul-14	2017-503535			2018-Feb-23	6293361	2035-Jul-14	Yes
JP	2015-Jul-16	2017-502967			2020-May-12	6703518		
JP	2015-Sep-18	2020-103489			2022-Feb-18	7027486		Yes
JP	2015-Sep-18	2017-516900			2020-Jun-30	6725901		Yes
JP	2015-Sep-23	2017-516891			2020-Feb-27	6667512		Yes
JP	2015-Sep-30	2017-517317			2020-Nov-18	6796580		
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JP	2015-Oct-27	2017-523472			2020-Mar-23	6679589		Yes
JP	2015-Nov-03	2017-523494			2021-Mar-18	6854757		

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
JP	2015-Nov-03	2020-202353			2023-Jan-27	7218341		
JP	2016-Apr-04	2017-552954			2019-May-17	6526236		
JP	2016-Apr-04	2019-041171			2021-Sep-27	6949892		
JP	2016-Apr-07	2017-552481			2018-Nov-09	6430662	2036-Apr-07	Yes
JP	2016-Apr-20	2017-555376			2018-May-18	6339300	2036-Apr-20	
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JP	2016-Jun-08	2017-560942			2020-Nov-02	6787931		Yes
JP	2016-Aug-05	2021-128049						
JP	2016-Aug-05	2023-048133						
JP	2016-Aug-05	2018-510972						
JP	2016-Dec-01	2018-542787			2018-Nov-30	6442119	2036-Dec-01	Yes
JP	2016-Dec-07	2018-531177			2021-Mar-10	6850801		Yes
JP	2017-Jul-27	2019-507220			2019-Sep-13	6584719		Yes
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JP	2017-Dec-18	2021-075571			2022-May-10	7071572		
JP	2017-Dec-21	2019-540086			2021-Mar-01	6845339		Yes
JP	2018-Feb-09	2019-543015			2020-Feb-17	6663087		Yes
JP	2018-Feb-19	2019-547424			2020-Jul-22	6738973		Yes
KR	1998-Jan-22	98-707511	2000-Nov-06	10-2000-0064753	2005-Feb-03	0471705	2018-Jan-22	
KR	1999-Sep-08	10-2000-7005688			2007-Nov-08	10-0776837	2019-Sep-08	
KR	1999-Sep-17	10-2000-7005691			2007-Mar-26	10-0702273	2019-Sep-17	
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KR	2001-Sep-05	10-2002-7006159			2007-Dec-14	10-0788062	2022-May-14	
KR	2002-Mar-19	10-2002-7016146			2008-May-26	10-0834185	2022-Mar-19	
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KR	2004-Jan-06	2005-7013026			2011-Mar-21	10-1025177	2024-Jan-06	Yes
KR	2004-Apr-30	10-2005-7020971			2012-Jun-21	10-1160588	2024-Apr-30	
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KR	2005-Apr-27	10-2006-7025486			2012-Jun-29	10-1163075	2025-Apr-27	
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KR	2005-Jun-23	10-2007-7002231			2012-Jan-25	10-1111274	2025-Jun-23	
KR	2005-Aug-02	10-2007-7005239			2012-Dec-13	10-1214135	2025-Aug-02	
KR	2005-Aug-02	10-2007-7005238			2012-Dec-03	10-1209696	2025-Aug-02	
KR	2005-Aug-02	10-2007-7005212			2012-Jul-10	10-1166664	2025-Aug-02	
KR	2005-Aug-31	10-2007-7005262			2013-May-27	10-1270039	2025-Aug-31	Yes
KR	2005-Sep-12	10-2007-7009047			2013-Jan-28	10-1228848	2025-Sep-12	
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KR	2005-Sep-20	10-2007-7010124					2025-Sep-20	
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KR	2005-Nov-28	10-2007-7015432			2012-Nov-02	10-1199260	2025-Nov-28	
KR	2006-Apr-03	10-2007-7025407	2007-Dec-13	118171/2007	2012-Nov-14	10-1203073	2026-Apr-03	
KR	2006-Apr-19	10-2007-7027589			2013-Aug-28	10-1303359	2026-Apr-19	
KR	2006-May-08	10-2008-7022053			2013-Aug-20	10-1300007	2026-May-08	
KR	2006-May-10	10-2007-7030185			2012-Dec-13	10-1214128	2026-May-10	
KR	2006-May-11	10-2007-7030168			2013-Aug-13	10-1298192	2026-May-11	
KR	2006-May-24	10-2007-7030347			2013-Mar-08	10-1243692	2026-May-24	
KR	2006-Jun-15	10-2008-7001858			2013-Aug-13	10-1298188	2026-Jun-15	Yes
KR	2006-Jul-05	10-2008-7003516			2013-Aug-28	10-1303367	2026-Jul-05	
KR	2006-Aug-15	10-2008-7006974			2013-Apr-15	10-1256384	2026-Aug-15	Yes
KR	2006-Sep-15	10-2008-7010024			2013-Sep-30	10-1315083	2026-Sep-15	
KR	2006-Sep-25	10-2008-7010046					2026-Sep-25	
KR	2006-Oct-06	10-2008-7011220			2013-Aug-28	10-1303368	2026-Oct-06	
KR	2006-Oct-16	10-2008-7012200			2013-Aug-21	10-1300565	2026-Oct-16	
KR	2006-Nov-07	10-2008-7013933			2012-Nov-27	10-1207324	2026-Nov-07	
KR	2006-Nov-20	10-2008-7015070			2013-Aug-28	10-1303365	2026-Nov-20	
KR	2006-Dec-06	10-2008-7017076			2014-Nov-28	10-1468901	2026-Dec-06	
KR	2006-Dec-11	10-2008-7016877			2013-Nov-07	10-1329260	2026-Dec-11	
KR	2006-Dec-12	10-2008-7016875			2013-Sep-30	10-1315078	2026-Dec-12	
KR	2007-Jan-26	10-2008-7021117			2013-Aug-28	10-1303362	2027-Jan-26	
KR	2007-Feb-26	2008/7023132	2007-Sep-07	WO/2007/100837	2012-Jun-07	1156272	2027-Feb-26	
KR	2007-Mar-12	10-2008-7024894					2027-Mar-12	
KR	2007-Apr-20	10-2008-7029364			2013-Dec-06	10-1340905	2027-Apr-20	
KR	2007-May-02	10-2008-7030125			2014-Dec-16	10-1475215	2027-May-02	
KR	2007-Jun-20	10-2009-7002014			2014-Dec-01	10-1469736	2027-Jun-20	
KR	2007-Aug-09	10-2009-7016344			2015-May-22	10-1524013	2027-Aug-09	
KR	2007-Aug-17	10-2009-7005417			2014-Nov-28	10-1469968	2027-Aug-17	
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KR	2007-Sep-20	10-2009-7007947			2015-Jan-12	10-1483662	2027-Sep-20	
KR	2007-Sep-20	10-2009-7009353			2014-Feb-27	10-1370363	2027-Sep-20	
KR	2007-Sep-20	10-2009-7009232			2015-Feb-09	10-1493263	2027-Sep-20	
KR	2007-Oct-11	10-2009-7010027			2014-Mar-14	10-1376560	2027-Oct-11	
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KR	2007-Oct-31	10-2009-7011106			2015-Mar-26	10-1507755	2027-Oct-31	
KR	2007-Nov-09	10-2009-7011892			2014-Nov-04	10-1460004	2027-Nov-09	

## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
KR	2007-Nov-27	10-2009-7013310			2015-May-22	10-1523993	2027-Nov-27	
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KR	2008-May-02	10-2009-7025447			2015-May-22	10-1524005	2028-May-02	
KR	2008-May-02	10-2009-7025261			2015-Mar-04	10-1500977	2028-May-02	
KR	2008-May-02	10-2010-7005002			2015-Sep-21	10-1555894	2028-May-02	
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KR	2008-Dec-29	10-2010-7017189			2016-Jan-28	10-1591509	2028-Dec-29	
KR	2009-Jan-13	10-2010-7018065			2016-Dec-14	10-1687942	2029-Jan-13	Yes
KR	2009-Jun-03	10-2011-7000415			2016-Nov-17	10-1679059	2029-Jun-03	Yes
KR	2009-Jun-12	10-2011-7000924			2016-Mar-02	10-1601261	2029-Jun-12	Yes
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KR	2009-Jul-10	10-2011-7003156			2016-May-12	10-1622263	2029-Jul-10	
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KR	2009-Jul-22	10-2011-7004532			2016-Dec-19	10-1689309	2029-Jul-22	
KR	2009-Aug-11	10-2011-7005760			2016-Nov-17	10-1679056	2029-Aug-11	
KR	2009-Sep-16	10-2011-7009201			2016-Aug-12	10-1649575	2029-Sep-16	Yes
KR	2009-Nov-03	10-2011-7012784					2029-Nov-03	
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KR	2009-Nov-30	10-2011-7018549			2018-May-08	10-1857776	2029-Nov-30	
KR	2010-Jan-04	10-2011-7018477			2018-Mar-12	10-1839417	2030-Jan-04	
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KR	2010-Jun-04	10-2012-7000219			2018-Jun-25	10-1872769	2030-Jun-04	
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KR	2010-Jun-14	10-2012-7001462			2018-Jul-17	10-1880898	2030-Jun-14	
KR	2010-Jun-15	10-2012-7001421			2016-Sep-20	10-1659715	2030-Jun-15	
KR	2010-Jun-22	10-2012-7001937			2017-Dec-01	10-1806535	2030-Jun-22	
KR	2010-Jul-14	10-2012-7004881			2018-Feb-10	10-1830050	2030-Jul-14	
KR	2010-Jul-21	10-2012-7005184					2030-Jul-21	Yes
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KR	2010-Aug-13	KR 2012-7006708	2013-Mar-31	KR 20120079831 A	2017-Feb-24	KR 10-1711901	2030-Aug-13	Yes
KR	2010-Aug-18	10-2012-7007630			2018-Dec-07	10-1928769	2030-Aug-18	
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KR	2010-Sep-09	10-2011-7019453			2012-Jun-29	10-1163016	2030-Sep-09	
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MX	2007-Sep-20	A/2009/003541			2011-Aug-04	288977	2027-Sep-20	
MX	2007-Sep-20	2009/002916			2011-Apr-04	285404	2027-Sep-20	
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MX	2007-Oct-31	MX/A/09/004521			2011-Apr-04	285403	2027-Oct-31	
MX	2007-Dec-07	2009/005915			2011-Aug-15	289327	2027-Dec-07	
MX	2008-Feb-26	2008/002704			2010-Dec-15	282150	2028-Feb-26	
MX	2008-Sep-22	MX/A/2010/003077	2009-Mar-26	WO 2009/039491	2011-Nov-24	292573	2028-Sep-22	
MX	2009-Jun-12	2010/013468			2012-Apr-23	298476	2029-Jun-12	Yes
MX	2009-Jun-12	2010/013410			2011-Nov-23	292516	2029-Jun-12	
MX	2009-Aug-13	MX20110001685	2010-Feb-18	MX2011001685	2013-Jan-16	306755	2029-Aug-13	
MX	2010-Aug-18	2012/002255			2013-Oct-29	314726	2030-Aug-18	
MX	2011-Jul-06	MX/A/2011/007257			2013-Jun-25	310811	2031-Jul-06	



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MX	2012-Apr-20	MX/A/2014/015722			2017-Nov-14	352204	2032-Apr-20	
MX	2012-Apr-20	MX/A/2012/004674			2014-Dec-19	326562	2032-Apr-20	
MX	2013-Dec-05	MX/A/2015/006974			2017-Sep-06	350394	2033-Dec-05	
MX	2013-Dec-05	MX/A/2015/007092			2017-Nov-23	352410	2033-Dec-05	Yes
MX	2014-Jun-16	MX/A/2015/006353			2017-May-02	347552	2034-Jun-16	Yes
MX	2014-Jul-09	MX/A/2016/001143			2017-May-25	348046	2034-Jul-09	
MX	2015-Jul-10	MX/A/2017/000809			2018-Sep-05	358816	2035-Jul-10	Yes
MY	2002-Jun-28	P120022452			2007-Aug-30	MY-131472-A	2022-Jun-28	
MY	2006-May-23	P120062381			2012-Feb-29	MY-145509-A	2026-May-23	
NL	1998-Jan-22	98900141.7	1999-Jan-13	EP 0890059	2004-Jun-23	0890059	2018-Jan-22	
NL	1998-Jul-28	98937339.4	2000-May-17	EP 1000295	2014-Jul-23	1000295	2018-Jul-28	
NL	1998-Aug-26	01130297.3	2002-Apr-10	EP 1195740	2017-Nov-22	1195740	2018-Aug-26	
NL	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03	
NL	1999-Sep-03	99943116.6		EP 1110198	2003-Nov-05	1110198	2019-Sep-03	
NL	1999-Sep-08	99969780.8	2000-Nov-02	EP 1047904	2013-Apr-24	1047904	2019-Sep-08	
NL	1999-Sep-17	99948820.8		EP 1046196	2008-Jan-16	1046196	2019-Sep-17	
NL	2000-Jun-22	00947862.9		EP 1108180	2008-Jul-30	1108180	2020-Jun-22	
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NL	2005-Dec-02	05815525.0			2017-Oct-04	1842399	2025-Dec-02	
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NL	2006-Mar-08	06711045.2		EP 1862036	2008-Dec-31	1862036	2026-Mar-08	Yes
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NL	2006-May-23	06771039.2	2008-Mar-05	EP 1893912	2020-Dec-16	1893912	2026-May-23	
NL	2006-May-24	06765708.0		EP 1889519	2009-Mar-18	1889519	2026-May-24	
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NL	2007-Apr-20	07735597.2	2009-Jan-21	EP 2016804	2011-Jun-29	2016804	2027-Apr-20	
NL	2007-May-31	15177109.4	2016-Mar-23	EP 2999314	2020-Nov-18	2999314	2027-May-31	
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NL	2007-Jun-19	07789721.3	2009-Mar-25	EP 2039069	2017-Apr-05	2039069	2027-Jun-19	
NL	2007-Jun-20	07789748.6	2009-Mar-25	EP 2039227	2018-Mar-21	2039227	2027-Jun-20	
NL	2007-Sep-18	07826418.1	2009-Jul-01	EP 2074865	2017-Jan-11	2074865	2027-Sep-18	Yes
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NL	2008-Mar-12	08743813.1			2018-Aug-01	2135487	2028-Mar-12	
NL	2008-Mar-14	18192950.6			2020-Aug-05	3445021	2028-Mar-14	Yes
NL	2008-Apr-04	08737714.9		EP 2135005	2010-Oct-06	2135005	2028-Apr-04	
NL	2008-May-01	14195242.4	2015-Apr-22	EP 2863104	2019-Jul-10	2863104	2028-May-01	
NL	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-02	
NL	2008-Aug-28	08807484.4	2010-Jun-02	EP 2190664	2016-Mar-16	2190664	2028-Aug-28	Yes
NL	2008-Oct-08	15170674.4	2016-Aug-03	EP 3051586	2018-Feb-21	3051586	2028-Oct-08	
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NL	2009-Nov-03	09759792.6	2011-Jul-27	EP 2347172	2020-Jan-22	2347172	2029-Nov-03	
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## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
NL	2010-Jul-07	10800332.8	2012-Jul-04	EP 2471057	2020-Mar-25	2471057	2030-Jul-07	
NL	2010-Aug-13	10808816.2	2012-Jun-20	EP 2465174	2019-Jan-09	2465174	2030-Aug-13	
NL	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
NL	2010-Oct-22	10807415.4	2012-Aug-29	EP 2491351	2013-Dec-11	2491351	2030-Oct-22	Yes
NL	2011-Feb-28	11713358.7	2013-Jan-09	EP 2542826	2018-Oct-24	2542826	2031-Feb-28	
NL	2011-Apr-13	11714280.2		EP 2567149	2015-Jul-08	2567149	2031-Apr-13	Yes
NL	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
NL	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-19	Yes
NL	2011-Nov-16	11794283.9			2019-Jan-09	2681969	2031-Nov-16	
NL	2011-Nov-22	11793494.3	2013-Oct-09	EP 2647260	2019-Aug-21	2647260	2031-Nov-22	
NL	2011-Dec-09	11804814.9	2013-Oct-30	EP 2655956	2020-Jul-29	2655956	2031-Dec-09	
NL	2012-Jan-03	12732193.3	2016-Apr-13	EP 2636286	2020-May-06	2636286	2032-Jan-03	Yes
NL	2012-Mar-15	12711261.3	2014-Jan-29	EP 2689182	2020-May-20	2689182	2032-Mar-15	Yes
NL	2012-Mar-23	12712763.7	2014-Feb-05	EP 2692211	2019-Aug-14	2692211	2032-Mar-23	
NL	2012-Mar-28	12715190.0	2014-Feb-05	EP 2692209	2015-Jan-28	2692209	2032-Mar-28	Yes
NL	2012-May-30	12170107.2	2012-Dec-12	EP 2533615	2014-Nov-05	2533615	2032-May-30	Yes
NL	2012-Jun-15	12735032.0	2014-Apr-23	EP 2721656	2019-Sep-25	2721656	2032-Jun-15	Yes
NL	2012-Jun-29	12737399.1			2019-Feb-13	2727228	2032-Jun-29	Yes
NL	2012-Aug-02	12772433.4	2014-Jun-25	EP 2745621	2020-Oct-21	2745621	2032-Aug-02	
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NL	2013-Apr-25	13727651.5	2015-Mar-11	EP 2845445	2021-Aug-11	2845445	2033-Apr-25	
NL	2013-May-21	13734501.3	2015-Apr-15	EP 2858854	2018-Jan-03	2858854	2033-May-21	Yes
NL	2013-Jun-26	13762232.0	2015-May-06	EP 2868163	2020-May-06	2868163	2033-Jun-26	
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NL	2014-Apr-02	14718773.6	2016-Feb-10	EP 2982221	2021-Aug-04	2982221	2034-Apr-02	
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NL	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
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NL	2014-Jun-16	14730167.5	2015-Aug-19	EP 2907365	2016-Sep-21	2907365	2034-Jun-16	Yes
NL	2014-Jul-09	14738810.2	2016-Jun-08	EP	2017-Feb-22	3028541	2034-Jul-09	
NL	2014-Jul-23	14741900.6	2016-Jun-08	EP 3028543	2018-Jan-17	3028543	2034-Jul-23	
NL	2014-Aug-18	EP14752339.3	2016-Mar-16	EP 2995174	2016-Oct-12	2995174	2034-Aug-18	Yes
NL	2014-Aug-19	19172206.5	2019-Oct-16	EP 3554198	2021-Apr-07	3554198	2034-Aug-19	
NL	2014-Aug-19	14786281.7	2016-Jun-29	EP 3036976	2019-Oct-09	3036976	2034-Aug-19	
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NL	2014-Oct-08	EP14786822.8	2016-Aug-17	EP 3055022	2018-Aug-08	3055022	2034-Oct-08	Yes
NL	2014-Oct-28	14904216.0	2016-Aug-10	EP 3053413	2019-Feb-13	3053413	2034-Oct-28	
NL	2015-Jan-21	15701166.9	2016-Dec-07	EP	2022-Dec-21	3099972	2035-Jan-21	Yes
NL	2015-Jan-30	15702252.6	2016-Dec-07	EP	2019-Mar-13	3100250	2035-Jan-30	Yes
NL	2015-Jan-30	19155288.4	2019-Jul-17	EP 3511918	2023-May-17	3511918	2035-Jan-30	Yes
NL	2015-Feb-16	15711291.3	2017-Jan-04	EP	2020-Jan-01	3111729	2035-Feb-16	
NL	2015-Mar-11	16190614.4	2017-May-10	3165809-A	2021-Sep-29	3165809	2035-Mar-11	Yes
NL	2015-May-27	15726916.8	2017-Apr-19	3155875-A	2017-Dec-27	3155875	2035-May-27	Yes
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NL	2015-Jun-08	15725683.5	2016-Aug-17	EP	2017-Apr-05	3056066	2035-Jun-08	
NL	2015-Jul-08	15734685.9	2017-May-24	3170373-A	2020-Sep-09	3170373	2035-Jul-08	Yes
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NL	2015-Nov-03	15790913.6	2017-Sep-13	EP 3216317	2020-Jan-08	3216317	2035-Nov-03	
NL	2016-Mar-11	19172759.3			2022-Nov-16	3570643	2036-Mar-11	Yes
NL	2016-Aug-05	18154729.0	2018-Jul-25	EP 3351851	2019-Oct-09	3351851	2036-Aug-05	
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NL	2017-Dec-18	17816839.9	2019-Jun-26	EP 3500792	2020-Feb-12	3500792	2037-Dec-18	
NL	2019-Oct-21	19787278.1	2021-Sep-08	EP 3874196	2022-Dec-28	3874196	2039-Oct-21	Yes
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NO	2008-Mar-14	18192950.6			2020-Aug-05	3445021	2028-Mar-14	Yes
NO	2008-May-02	08747545.5	2010-Feb-17	EP 2153115	2021-Jul-07	2153115	2028-May-02	
NO	2008-Oct-08	15170674.4	2016-Aug-03	EP 3051586	2018-Feb-21	3051586	2028-Oct-08	
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NO	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
NO	2011-Feb-28	11713358.7	2013-Jan-09	EP 2542826	2018-Oct-24	2542826	2031-Feb-28	
NO	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
NO	2011-Dec-09	19213280.1	2020-May-20	EP 3653924	2024-Apr-17	3653924		
NO	2012-Jan-20	EP 12737154.0	2013-Nov-27	EP2666220	2019-Sep-18	2666220	2032-Jan-20	Yes
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NO	2012-Mar-23	12712763.7	2014-Feb-05	EP 2692211	2019-Aug-14	2692211	2032-Mar-23	
NO	2012-Aug-02	12772433.4	2014-Jun-25	EP 2745621	2020-Oct-21	2745621	2032-Aug-02	
NO	2012-Aug-30	12759831.6	2014-Jul-09	EP2751477	2020-Apr-25	2751477	2032-Aug-30	Yes
NO	2012-Oct-19	12841485.1	2014-Aug-27	EP 2769142	2018-Feb-21	2769142	2032-Oct-19	
NO	2013-Jan-30	16200531.8	2017-Jun-17	EP 3182807	2020-Aug-12	3182807	2033-Jan-30	Yes
NO	2013-Feb-22	13717316.7	2014-Dec-17	EP 2823691	2019-Apr-10	2823691	2033-Feb-22	
NO	2013-Apr-25	13727651.5	2015-Mar-11	EP 2845445	2021-Aug-11	2845445	2033-Apr-25	

## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
NO	2014-Apr-21	14719284.3	2016-Mar-09	EP 2992733	2018-Dec-26	2992733	2034-Apr-21	Yes
NO	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
NO	2014-Jul-23	14741900.6	2016-Jun-08	EP 3028543	2018-Jan-17	3028543	2034-Jul-23	
NO	2014-Aug-19	19172206.5	2019-Oct-16	EP 3554198	2021-Apr-07	3554198	2034-Aug-19	
NO	2014-Aug-19	14786281.7	2016-Jun-29	EP 3036976	2019-Oct-09	3036976	2034-Aug-19	
NO	2014-Aug-29	14757933.8	2016-Mar-02	EP 2989864	2016-Oct-12	2989864	2034-Aug-29	Yes
NO	2014-Oct-08	EP14786822.8	2016-Aug-17	EP 3055022	2018-Aug-08	3055022	2034-Oct-08	Yes
NO	2015-Feb-16	15711291.3	2017-Jan-04	EP	2020-Jan-01	3111729	2035-Feb-16	
NO	2015-May-27	15726916.8	2017-Apr-19	3155875-A	2017-Dec-27	3155875	2035-May-27	Yes
NO	2015-Jun-01	EP15723985.6	2017-May-10	3164638-A	2018-Aug-15	3164638	2035-Jun-01	
NO	2015-Jul-06	15734185.0	2017-May-17	3167225-A	2017-Nov-01	3167225	2035-Jul-06	Yes
NO	2016-Mar-07	16158975.9			2020-Dec-16	3065510	2036-Mar-07	Yes
NO	2016-Aug-05	18154729.0	2018-Jul-25	EP 3351851	2019-Oct-09	3351851	2036-Aug-05	
NO	2017-Mar-20	17710760.4	2019-Jan-30	EP 3434074	2020-May-06	3434074	2037-Mar-20	Yes
NO	2017-Dec-18	17816839.9	2019-Jun-26	EP 3500792	2020-Feb-12	3500792	2037-Dec-18	
NO	2019-Oct-21	19787278.1	2021-Sep-08	EP 3874196	2022-Dec-28	3874196	2039-Oct-21	Yes
PL	2004-Apr-21	20172248.5	2020-Oct-14	EP 3722533	2022-Oct-26	3722533	2024-Apr-21	
PL	2004-Apr-21	04760087.9	2006-Feb-01	EP 1620843	2015-Sep-02	1620843	2024-Apr-21	
PL	2004-Apr-21	18182693.4	2018-Dec-26	EP 3419388	2020-Jun-17	3419388	2024-Apr-21	
PL	2004-Sep-07	11171721.1	2011-Oct-05	EP 2372765	2020-Nov-11	2372765	2024-Sep-07	
PL	2005-Mar-14	19187360.3	2020-Jan-01	EP 3589081	2024-Feb-21	3589081	2025-Mar-14	
PL	2005-May-30	18167801.2	2018-Oct-03	EP 3383034	2019-Nov-06	3383034	2025-May-30	
PL	2005-Sep-19	21213937.2	2022-Jun-08	EP 4008949	2024-Jan-10	4008949		
PL	2005-Sep-19	20169373.6	2020-Oct-14	EP 3722665	2022-Jan-05	3722665	2025-Sep-19	
PL	2005-Sep-19	05783602.5	2007-Jul-11	EP 1805452	2014-Apr-23	1805452	2025-Sep-19	
PL	2005-Sep-19	14162998.0	2014-Oct-15	EP 2789894	2018-Dec-12	2789894	2025-Sep-19	
PL	2005-Sep-19	18184893.8	2019-Jan-16	EP 3428506	2020-Apr-15	3428506	2025-Sep-19	
PL	2005-Nov-09	05809900.3		EP 1815536	2011-Feb-09	1815536	2025-Nov-09	
PL	2005-Dec-02	05815525.0			2017-Oct-04	1842399	2025-Dec-02	
PL	2006-Jan-05	06701369.8	2007-Oct-24	EP 1846949	2018-Aug-22	1846949	2026-Jan-05	
PL	2006-Apr-03	06716702.3	2007-Nov-29	EP 1869365	2013-Jun-12	1869365	2026-Apr-03	
PL	2006-May-24	06765708.0		EP 1889519	2009-Mar-18	1889519	2026-May-24	
PL	2006-Jun-15	06765753.6	2008-Mar-12	EP 1897332	2015-Oct-14	1897332	2026-Jun-15	Yes
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PL	2006-Oct-11	11173044.6	2011-Nov-30	EP 2390866	2016-Sep-28	2390866	2026-Oct-11	
PL	2006-Oct-11	14166066.2	2014-Sep-17	EP 2779146	2017-Jul-26	2779146	2026-Oct-11	
PL	2006-Dec-13	11155525.6	2011-May-25	EP 2325670	2017-Oct-25	2325670	2026-Dec-13	
PL	2006-Dec-13	06842469.6	2008-Sep-10	EP 1966624	2011-Jun-29	1966624	2026-Dec-13	
PL	2007-Mar-02	07713186.0	2008-Dec-03	EP 1997352	2018-Oct-24	1997352	2027-Mar-02	
PL	2007-May-02	07735739.0	2009-Jan-28	EP 2018795	2016-Dec-14	2018795	2027-May-02	
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PL	2007-Jun-20	07789748.6	2009-Mar-25	EP 2039227	2018-Mar-21	2039227	2027-Jun-20	
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PL	2007-Oct-12	07826733.3	2009-Jul-29	EP 2082167	2017-Feb-22	2082167	2027-Oct-12	
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PL	2008-Oct-08	15170674.4	2016-Aug-03	EP 3051586	2018-Feb-21	3051586	2028-Oct-08	
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PL	2010-Feb-26	10708388.3	2012-Jan-11	EP 2404485	2020-May-20	2404485	2030-Feb-26	Yes
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PL	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
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PL	2011-Apr-13	11714280.2		EP 2567149	2015-Jul-08	2567149	2031-Apr-13	Yes
PL	2011-Jul-29	17200852.6	2018-Jul-11	EP 3346593	2019-Sep-11	3346593	2031-Jul-29	
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PL	2011-Nov-16	11794283.9			2019-Jan-09	2681969	2031-Nov-16	
PL	2011-Dec-09	11804814.9	2013-Oct-30	EP 2655956	2020-Jul-29	2655956	2031-Dec-09	
PL	2011-Dec-09	19213280.1	2020-May-20	EP 3653924	2024-Apr-17	3653924		
PL	2012-Jan-20	EP 12737154.0	2013-Nov-27	EP 2666220	2019-Sep-18	2666220	2032-Jan-20	Yes
PL	2012-Mar-15	12711261.3	2014-Jan-29	EP 2689182	2020-May-20	2689182	2032-Mar-15	Yes
PL	2012-Mar-23	12712763.7	2014-Feb-05	EP 2692211	2019-Aug-14	2692211	2032-Mar-23	
PL	2012-Mar-28	12715190.0	2014-Feb-05	EP 2692209	2015-Jan-28	2692209	2032-Mar-28	Yes
PL	2012-Apr-17	12721351.0	2014-Mar-12	EP 2705545	2020-Apr-15	2705545	2032-Apr-17	
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PL	2012-Aug-02	12772433.4	2014-Jun-25	EP 2745621	2020-Oct-21	2745621	2032-Aug-02	
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PL	2012-Oct-19	12808477.9	2014-Jun-25	EP 2745626	2017-May-10	2745626	2032-Oct-19	
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PL	2013-Jan-02	13703878.2	2014-Aug-06	EP 2761978	2016-Apr-06	2761978	2033-Jan-02	
PL	2013-Jan-30	13711957.4	2014-Dec-24	EP 2815633	2016-Dec-14	2815633	2033-Jan-30	Yes
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PL	2013-Jun-26	13762232.0	2015-May-06	EP 2868163	2020-May-06	2868163	2033-Jun-26	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
PL	2013-Sep-17	13799377.0	2015-Jul-29	EP 2898265	2016-Dec-07	2898265	2033-Sep-17	
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PL	2014-Jun-04	14728546.4	2016-Apr-13	EP 3005834	2018-Mar-21	3005834	2034-Jun-04	
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SE	2010-Apr-22	10716959.1			2018-Dec-26	2425682	2030-Apr-22	Yes
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SE	2010-Jul-07	10800332.8	2012-Jul-04	EP 2471057	2020-Mar-25	2471057	2030-Jul-07	
SE	2010-Aug-13	EP 10808822.0	2012-Jun-20	EP 2465329	2019-Oct-16	2465329	2030-Aug-13	Yes
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SE	2011-Apr-22	11723662.0	2013-Mar-06	EP 2564669	2018-Aug-29	2564669	2031-Apr-22	
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SE	2011-Aug-11	11754522.8	2013-Jun-26	EP 2606274	2018-Mar-28	2606274	2031-Aug-11	

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
SE	2011-Sep-19	14177579.1	2014-Oct-22	EP 2792936	2019-Nov-06	2792936	2031-Sep-19	Yes
SE	2011-Nov-16	11794283.9			2019-Jan-09	2681969	2031-Nov-16	
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SE	2012-Jan-03	12732193.3	2016-Apr-13	EP 2636286	2020-May-06	2636286	2032-Jan-03	Yes
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SE	2012-Mar-12	12710360.4	2014-Jan-22	EP 2687065	2019-Jan-02	2687065	2032-Mar-12	
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TR	2014-Jul-09	14738810.2	2016-Jun-08	EP	2017-Feb-22	3028541	2034-Jul-09	



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Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement  
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US	1998-Dec-17	09/213189		US 6459919	2002-Oct-01	6459919	2017-Aug-26	
US	1998-Dec-17	09/213537		US 6292901	2001-Sep-18	6292901	2017-Aug-26	
US	1998-Dec-17	09/215624		US 6528954	2003-Mar-04	6528954	2017-Aug-26	
US	1998-Dec-17	09/213548		US 6166496	2000-Dec-26	6166496	2017-Aug-26	
US	1998-Dec-17	09/213581		US 7038398	2006-May-02	7038398	2017-Aug-26	
US	1998-Dec-17	09/213659		US 6211626	2001-Apr-03	6211626	2017-Aug-26	
US	1998-Dec-18	09/216262		US 6127783	2000-Oct-03	6127783	2018-Dec-18	
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US	2000-Apr-17	09/551029		US 6586882	2003-Jul-01	6586882	2020-Apr-17	
US	2000-Jun-22	09/599791		US 6601982	2003-Aug-05	6601982	2020-Jul-14	
US	2000-Jul-06	09/610717		US 6304464	2001-Oct-16	6304464	2020-Jul-06	
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US	2000-Dec-21	09/746034	2002-Jun-27	US 2002080622 A1	2003-Apr-15	6547416	2021-Apr-13	
US	2000-Dec-22	09/747483	2002-Jun-27	US 2002080615 A1	2003-Apr-15	6547423	2020-Dec-22	
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US	2001-Mar-16	09/810142	2002-Oct-10	US 2002145041 A1	2003-Jan-28	6510995	2021-Mar-16	
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US	2001-Mar-29	09/820517	2002-Nov-21	US 2002171373 A1	2003-Jan-14	6507159	2021-Jun-21	
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US	2001-Jun-07	09/876661	2003-Feb-13	US 2003030808 A1	2004-May-25	6741351	2021-Jun-07	

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US	2002-Jun-13	10/171463	2003-Mar-27	US 7242152	2007-Jul-10	7242152	2017-Sep-04	
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US	2003-Dec-08	10/538605	2006-Nov-02	US 7554274	2009-Jun-30	7554274	2026-Jan-25	Yes
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US	2005-Oct-26	11/577995	2008-Jun-12	US 7906917	2011-Mar-15	7906917	2028-Jul-13	
US	2005-Oct-28	11/262192	2005-Oct-28	US 8231251	2012-Jul-31	8231251	2025-Dec-03	
US	2005-Nov-23	11/285980	2006-May-25	US 7423387	2008-Sep-09	7423387	2026-Nov-22	
US	2005-Nov-24	11/719882	2009-Jul-02	US 2009168415				
US	2005-Nov-25	11/719888	2009-Sep-17	US 8063577	2011-Nov-22	8063577	2028-Jan-18	
US	2005-Nov-28	11/720629	2010-May-06	US 8026532	2011-Sep-27	8026532	2026-Mar-22	
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US	2005-Dec-05	11/721169	2009-Nov-19	US 7659545	2010-Feb-09	7659545	2027-Feb-18	Yes
US	2005-Dec-16	11/303,418	2006-Jul-20	2006/0158887	2009-Jun-09	7543941	2025-Dec-16	
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US	2005-Dec-30	11/322891	2006-May-25	US 7520634	2009-Apr-21	7520634	2019-Mar-08	
US	2006-Jan-03	11/325080	2007-Jul-05	US 2007152797 A1	2009-Nov-17	7619370	2028-Jan-06	
US	2006-Jan-05	10/567179	2006-Jan-05	US 9111822	2015-Aug-18	9111822	2029-Nov-29	
US	2006-Jan-24	11/338133	2006-Aug-03	US 7348736	2008-Mar-25	7348736	2026-Jan-24	Yes
US	2006-Feb-28	11/364304	2006-Sep-07	US 7543956	2009-Jun-09	7543956	2027-Aug-12	
US	2006-Mar-02	11/366364	2006-Sep-14	US 7538499	2009-May-26	7538499	2027-Feb-20	
US	2006-Mar-08	11/817880	2008-Sep-11	US 9253040	2016-Feb-02	9253040	2033-Jan-12	Yes
US	2006-Mar-22	11/909504	2010-Jul-01	US 7911158	2011-Mar-22	7911158	2028-Jul-17	Yes
US	2006-Apr-03	11/887696	2009-Dec-24	US 7911118	2011-Mar-22	7911118	2026-Sep-22	
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US	2006-May-11	11/914979	2008-Aug-28	US 8410723	2013-Apr-02	8410723	2027-Mar-13	
US	2006-May-19	11/419292	2006-Dec-21	US 7348604	2008-Mar-25	7348604	2026-May-19	
US	2006-May-23	11/419995	2006-Nov-23	US 7703951	2010-Apr-27	7703951	2027-May-12	
US	2006-May-23	11/419998	2006-Nov-23	US 2006262545 A1	2010-Aug-03	7766518	2027-Dec-21	
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US	2006-Jun-06	11/422589	2006-Dec-07	US 7777427	2010-Aug-17	7777427	2029-Jun-17	
US	2006-Jun-15	11/993053	2010-Aug-26	US 8665762	2014-Mar-04	8665762	2028-Dec-16	Yes
US	2006-Jun-19	11/425019	2006-Jun-19	US 7210827	2007-May-01	7210827	2026-Jun-19	Yes
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US	2006-Jul-05	11/995347	2008-Sep-11	US 7652237	2010-Jan-26	7652237	2026-Aug-06	

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US	2006-Aug-28	11/467713	2006-Dec-21	US 7350936	2008-Apr-01	7350936	2020-Nov-20	
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US	2006-Sep-15	11/991,950		US 2011187290	2015-Mar-17	8,981,672		
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US	2006-Oct-02	12/089236	2008-Nov-06	US 7893661	2011-Feb-22	7893661	2028-Mar-10	
US	2006-Oct-06	12/090142	2008-Oct-02	US 7990083	2011-Aug-02	7990083	2028-Apr-15	
US	2006-Oct-11	12/089720	2009-May-21	US 7841733	2010-Nov-30	7841733	2027-Jun-27	
US	2006-Oct-13	11/549593	2008-Sep-18	US 7687753	2010-Mar-30	7687753	2025-Oct-10	
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US	2006-Oct-27	11/553512		US 8142051	2012-Mar-27	8142051	2029-Dec-20	
US	2006-Oct-27	11/995290	2009-Jun-04	US 2009140633 A1	2010-Jun-29	7745985	2027-May-07	
US	2006-Nov-07	12/092716	2008-Nov-13	US 7520636	2009-Apr-21	7520636	2026-Nov-07	
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US	2006-Dec-05	12/097283	2008-Dec-04	US 8111022	2012-Feb-07	8111022	2028-Jul-15	
US	2006-Dec-06	12/096801	2008-Oct-30	US 8356904	2013-Jan-22	8356904	2029-May-23	
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US	2006-Dec-13	12/097927	2009-Jan-01	US 9474134	2016-Oct-18	9474134	2030-Aug-09	
US	2006-Dec-13	12/097525	2008-Dec-25	US 8579452	2013-Nov-12	8579452	2029-Jun-21	Yes
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US	2007-Jan-22	11/625622	2007-May-24	US 7572028	2009-Aug-11	7572028	2020-Nov-20	
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US	2007-Feb-08	11/672664	2007-Jun-28	US 8207821	2012-Jun-26	8207821	2027-Feb-08	
US	2007-Feb-26	13/540,477	2012-Oct-25	US2012/0268934	2013-Apr-09	8414161	2031-May-17	
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US	2007-Feb-26	15/083,076			2019-Jan-08	10174908	2027-Feb-26	
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US	2007-Mar-15	11/686491	2007-Dec-20	US 7550931	2009-Jun-23	7550931	2022-Jan-07	
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US	2007-Apr-02	11/695396	2007-Nov-29	US 7654703	2010-Feb-02	7654703	2025-Jan-28	
US	2007-Apr-16	11/735651	2007-Dec-20	US 7422350	2008-Sep-09	7422350	2025-Sep-09	Yes
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US	2007-Apr-26	11/740380	2007-Aug-16	US 7598686	2009-Oct-06	7598686	2019-Apr-10	
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US	2007-May-21	60/939,275						
US	2007-May-31	12/302300	2009-Jul-02	US 8143803	2012-Mar-27	8143803	2027-May-31	
US	2007-Jun-01	14/164,964	2015-Jul-30	2015-0214779	2017-May-30	9664347	2027-Jun-01	
US	2007-Jun-01	13/476,533			2014-Jan-28	8636387	2027-Jun-01	
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US	2007-Jun-12	11/761478	2007-Oct-11	US 7598681	2009-Oct-06	7598681	2027-Jun-12	
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US	2007-Jun-19	12/303760	2010-Sep-16	US 8063750	2011-Nov-22	8063750	2027-Jun-19	
US	2007-Jun-20	12/306020	2009-Sep-17	US 8134461	2012-Mar-13	8134461	2027-Jun-20	
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US	2007-Jul-05	12/374320	2009-Sep-17	US 7854539	2010-Dec-21	7854539	2027-Dec-05	
US	2007-Jul-10	12/373792	2009-Dec-17	US 8174809	2012-May-08	8174809	2027-Jul-10	Yes
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US	2007-Jul-12	11/777008	2008-Jan-17	US 7772787	2010-Aug-10	7772787	2028-Oct-30	
US	2007-Jul-20	11/780574	2008-Jan-17	US 7737643	2010-Jun-15	7737643	2025-Mar-14	
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US	2007-Sep-03	12/439307	2010-Apr-15	US 2010094439				
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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2007-Sep-20	12/443859	2010-Jul-01	US 8106599	2012-Jan-31	8106599	2027-Sep-20	
US	2007-Sep-21	60/994,792						
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US	2007-Nov-08	12/514463	2010-Mar-04	US 8217763	2012-Jul-18	8217763	2027-Nov-08	
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US	2007-Dec-07	12/517367	2010-Apr-01	US 8412354	2013-Apr-02	8412354	2029-Mar-13	
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US	2008-Jan-08	11/970,622	2009-Jul-09	US2009-0175040	2011-Jan-25	7874711	2029-Feb-02	Yes
US	2008-Jan-09	61/010,549						Yes
US	2008-Jan-30	61/024,584						Yes
US	2008-Feb-15	61/065,914						
US	2008-Mar-03	12/529546	2010-Mar-25	US 2010076250				Yes
US	2008-Mar-10	12/075,184	2009-Sep-10	2009-0225549	2011-Feb-15	7887216	2028-Aug-28	
US	2008-Mar-12	13/206,212	2011-Dec-01	US 8188677	2012-May-29	8,188,677	2028-Mar-12	
US	2008-Mar-12	14/057982	2014-Feb-13	US 8952625	2015-Feb-10	8952625	2028-Mar-12	Yes
US	2008-Mar-12	12/047269	2008-Sep-18	US 8174204	2012-May-08	8174204	2028-Mar-12	
US	2008-Mar-12	12/047262	2008-Sep-18	US 7804256	2010-Sep-28	7804256	2029-Mar-05	Yes
US	2008-Mar-12	12/858004	2010-Dec-09	US 8232736	2012-Jul-31	8232736	2028-Mar-12	Yes
US	2008-Mar-12	12/047249		US 7852017	2010-Dec-14	7852017	2028-Mar-12	
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US	2008-Mar-31	12/058971		US 7759881	2010-Jul-20	7759881	2028-Mar-31	Yes
US	2008-Mar-31	12/593308	2010-Apr-29	US 8203284	2012-Jun-19	8203284	2028-Mar-31	
US	2008-Apr-04	61/042289						
US	2008-Apr-04	12/593382	2010-May-13	US 8220958	2012-Jul-17	8220958	2028-Apr-04	
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US	2008-Apr-23	12/598054	2010-Aug-19	US 8330383	2012-Dec-11	8330383	2029-Feb-12	
US	2008-Apr-28	12/598222	2010-Jun-03	US 8346376	2013-Jan-01	8346376	2029-Sep-17	Yes
US	2008-Apr-28	12/598098	2010-Jun-03	US 8288957	2012-Oct-16	8288957	2029-May-06	
US	2008-Apr-30	12/113320	2008-Nov-13	US 2008278092				
US	2008-May-01	12/598285	2010-Jun-03	US 8330387	2012-Dec-11	8330387	2029-Jul-03	
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US	2008-May-02	12/975991	2011-Apr-21	US 8408741	2013-Apr-02	8408741	2028-Jul-08	
US	2008-May-05	12/599333	2010-Sep-23	US 7943940	2011-May-17	7943940	2028-May-07	
US	2008-May-06	12/599336	2011-Feb-03	US 2011025230				
US	2008-May-19	13/683,594	2008-Nov-27	WO 2008/144672	2014-Jul-15	8777457	2028-May-19	
US	2008-May-19	14/330,598	2008-Nov-27	WO 2008/144672	2016-Nov-01	9482394	2028-May-19	
US	2008-May-19	12/599,500	2008-Nov-27	WO 2008144672	2013-Apr-30	8430538	2029-Aug-31	
US	2008-May-22	12/601279	2010-Jul-08	US 8506612	2013-Aug-13	8506612	2029-Aug-18	Yes
US	2008-May-26	12/600871	2010-Jul-08	US 8425101	2013-Apr-23	8425101	2030-Mar-05	
US	2008-May-30	12/602206	2010-Jul-08	US 9368071	2016-Jun-14	9368071	2028-May-30	
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US	2008-Jun-17	12/140520		US 7950833	2011-May-31	7950833	2029-Jul-04	Yes
US	2008-Jun-23	12/665126	2010-Jul-29	US 8258713	2012-Sep-04	8258713	2028-Jun-23	
US	2008-Jun-26	12/146512	2009-Oct-08	US 2009251059	2012-Jul-03	8212494	2028-Jun-26	
US	2008-Jun-30	12/165547		US 8022683	2011-Sep-20	8022683	2028-Jun-30	Yes
US	2008-Jun-30	12/666826	2010-Jul-22	US 8242710	2012-Aug-14	8242710	2028-Jun-30	
US	2008-Jul-07	12/168776	2009-Apr-30	US 7988328	2011-Aug-02	7988328	2028-Jul-07	
US	2008-Jul-11	12/171362		US 7766509	2010-Aug-03	7766509	2028-Nov-12	
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US	2008-Aug-14	61/088,812						
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US	2008-Aug-28	61/092520						
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US	2008-Aug-29	61/092,842						Yes
US	2008-Sep-16	12/679324	2010-Aug-19	US 8319406	2012-Nov-27	8319406	2029-Jan-16	
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US	2008-Sep-22	13/543,439			2014-Nov-04	8,876,328	2028-Sep-22	
US	2008-Sep-22	12/235,116	2009-Apr-02	US2009-0086476	2011-Jun-14	7959332	2029-Sep-06	
US	2008-Sep-22	15/646,384			2020-Apr-28	10634321	2029-Apr-29	
US	2008-Sep-22	13/965,026			2014-Dec-16	8911121	2028-Sep-22	
US	2008-Sep-22	13/934,019			2014-Dec-09	8905602	2028-Sep-22	
US	2008-Sep-22	12/235,127	2009-Apr-02	US2009-0086481	2011-Aug-09	7993034	2028-Nov-23	Yes
US	2008-Sep-22	12/235,141						
US	2008-Sep-22	14/569,896			2017-Jul-18	9709253	2028-Sep-22	
US	2008-Sep-22	13/109,490	2011-Sep-08	US2011-0216534	2013-Jan-08	8348479	2028-Oct-16	
US	2008-Sep-22	13/735,655	2011-Sep-08	US2011-0216534	2014-Jul-29	8789978	2028-Sep-22	
US	2008-Sep-22	12/235,146	2009-May-21	US2009-0129086	2013-Jul-23	8491166	2029-Aug-17	
US	2008-Sep-22	13/431,439	2012-Jul-26	US2012/0188765	2013-Jan-08	8348477	2028-Sep-22	
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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2008-Sep-22	14/563,551			2016-Jul-26	9400093	2028-Sep-22	
US	2008-Sep-30	61/101,396						Yes
US	2008-Oct-08	12/681950	2010-Aug-19	US 8390207	2013-Mar-05	8390207	2029-Nov-07	
US	2008-Nov-03	12/740125	2010-Oct-14	US 8354805	2013-Jan-15	8354805	2029-Sep-16	
US	2008-Nov-03	12/740375	2010-Oct-14	US 8412359	2013-Apr-02	8412359	2029-Dec-20	Yes
US	2008-Nov-05	12/265354	2009-Mar-19	US 2009072761				
US	2008-Nov-24	12/744088	2010-Sep-30	US 8378591	2013-Feb-19	8378591	2029-Oct-17	
US	2008-Dec-02	12/746551	2010-Oct-21	US 8368315	2013-Feb-05	8368315	2029-Sep-02	
US	2008-Dec-02	12/746540	2010-Sep-30	US 8400071	2013-Mar-19	8400071	2029-Oct-25	
US	2008-Dec-03	12/327432	2009-Dec-17	US 8002435	2011-Aug-23	8002435	2029-Jul-07	Yes
US	2008-Dec-03	12/327531		US 8076859	2011-Dec-13	8076859	2028-Dec-03	Yes
US	2008-Dec-16	12/747525	2010-Nov-04	US 8508139	2013-Aug-13	8508139	2029-Nov-29	Yes
US	2008-Dec-16	12/747521	2010-Oct-28	US 8523389	2013-Sep-03	8523389	2030-Mar-08	
US	2008-Dec-19	12/339651	2010-Jun-24	US 8487546	2013-Jul-16	8487546	2030-Dec-11	Yes
US	2008-Dec-19	14/261096	2015-Oct-29	US 9572208	2017-Feb-14	9572208	2029-Feb-14	Yes
US	2008-Dec-22	12/808910	2011-Nov-24	US 8820972	2014-Sep-02	8820972	2030-Sep-29	
US	2008-Dec-29	12/810535	2011-Feb-10	US 8938468	2015-Jan-20	8938468	2030-Oct-06	
US	2008-Dec-30	12/345953	2010-Jun-17	US 8013281	2011-Sep-06	8013281	2020-Dec-20	
US	2008-Dec-31	12/347138	2010-Jul-01	US 8212491	2012-Jul-03	8212491	2030-Aug-22	
US	2009-Jan-13	12/352750		US 8070328	2011-Dec-06	8070328	2029-Jan-13	
US	2009-Jan-13	12/812043	2011-Aug-04	US 2011190913				Yes
US	2009-Jan-30	12/363268	2010-Aug-05	US 2010195333 A1	2012-Aug-21	8246212	2029-Jan-30	
US	2009-Jan-30	12/363663		US 7988327	2011-Aug-02	7988327	2029-Aug-07	
US	2009-Jan-30	12/363286	2010-Aug-05	US 2010195330 A1	2012-Oct-16	8287150	2029-Jan-30	
US	2009-Jan-30	12/363281	2010-Aug-05	US 2010195323 A1	2012-Apr-17	8157414	2029-Jan-30	
US	2009-Feb-02	61/149142						Yes
US	2009-Feb-16	12/371,891			2012-Jun-26	8207687	2030-Dec-05	
US	2009-Feb-16	13/525,997			2014-Jul-15	8779691	2029-Jul-30	
US	2009-Mar-13	12/832,523			2013-Apr-30	8430529	2030-Feb-26	
US	2009-Mar-13	14/275,576	2014-Nov-13	2014-0334155	2015-Jun-02	9046231	2029-Mar-13	
US	2009-Mar-13	13/109,503	2011-Sep-08	US2011/0216532	2012-Nov-06	8303142	2029-Mar-13	
US	2009-Mar-13	12/403,575	2010-Sep-16	US2010-0232147	2011-Jun-07	7954980	2029-Jun-26	
US	2009-Mar-13	13/868,825			2014-May-13	8721120	2030-Jul-08	
US	2009-Apr-21	12/989091	2011-Feb-24	US 8957595	2015-Feb-17	8957595	2029-Apr-21	
US	2009-Apr-29	12/990516	2011-Feb-24	US 8664892	2014-Mar-04	8664892	2030-Nov-24	
US	2009-Apr-30	13/430554		US 8680771	2014-Mar-25	8680771	2029-Sep-14	Yes
US	2009-Apr-30	12/433222	2010-Nov-04	US 8482223	2013-Jul-09	8482223	2030-May-04	Yes
US	2009-May-15	13/073,726	2011-Jul-14	US 2011169407	2013-Jan-08	8,350,485	2029-May-15	Yes
US	2009-May-20	12/993284	2011-Mar-17	US 8434913	2013-May-07	8434913	2030-May-14	
US	2009-May-27	12/993872	2011-Mar-24	US 9253707	2016-Feb-02	9253707	2029-May-27	Yes
US	2009-May-28	12/473739	2010-Sep-16	US 2010231133	2017-Jun-27	9693413	2030-Jun-25	
US	2009-May-29	12/474714		US 8536794	2013-Sep-17	8536794	2027-Apr-01	
US	2009-Jun-03	12/994875	2011-Apr-14	US 2011084901				Yes
US	2009-Jul-03	13/002801	2011-May-19	US 8604700	2013-Dec-10	8604700	2030-Aug-17	Yes
US	2009-Jul-10	13/002573	2011-May-12	US 8492179	2013-Jul-23	8492179	2029-Jul-29	
US	2009-Jul-16	13/054800	2011-May-26	US 8559175	2013-Oct-15	8559175	2030-Jan-08	Yes
US	2009-Jul-17	13/070,299	2011-Jul-14	US 2011069417	2012-Aug-21	8,247,998	2029-Jul-17	
US	2009-Jul-17	12/504,994	2010-Sep-16	US 2010231135	2011-May-03	7,936,135	2029-Jul-17	
US	2009-Jul-17	13/080,353	2011-Jul-28	US 20110181194	2012-Jan-03	8,089,217	2029-Jul-17	
US	2009-Jul-22	13/055213	2011-Jun-02	US 8493004	2013-Jul-23	8493004	2030-Mar-16	
US	2009-Jul-22	13/055517	2011-May-19	US 8466627	2013-Jun-18	8466627	2030-Mar-07	
US	2009-Jul-24	13/662,465	2013-Nov-07	US 20130293156	2016-Apr-12	9310027	2029-Jul-24	Yes
US	2009-Jul-24	15/076,579	2019-Jan-24	US 20190024873	2020-Apr-07	10612726	2029-Dec-03	Yes
US	2009-Jul-24	13/662,464	2013-Feb-28	US 20130049635	2014-Mar-11	8668350	2029-Jul-24	Yes
US	2009-Jul-24	12/509,380	2010-Jan-28	US 20100020536	2012-Oct-30	8297782	2031-Jan-19	Yes
US	2009-Jul-24	13/662,467	2013-Nov-07	US 20130294065	2016-Apr-12	9310049	2029-Jul-24	Yes
US	2009-Jul-24	15/076,591	2019-Jun-13	US 20190178451	2020-Jan-28	10544904	2029-Jul-24	Yes
US	2009-Aug-11	13/058028	2011-Jun-16	US 8896414	2014-Nov-25	8896414	2029-Aug-11	
US	2009-Aug-13	13/418,896	2011-May-19	US-20110115360	2013-Jun-04	8454205	2029-Aug-13	
US	2009-Aug-13	12/945,515	2011-May-19	US-20110115360	2012-Mar-13	8132942	2029-Aug-13	
US	2009-Aug-13	16/292,097			2019-Sep-03	10400996	2029-Aug-13	
US	2009-Aug-13	13/908,663			2016-Mar-29	9297517	2029-Sep-28	
US	2009-Aug-13	12/541,060	2010-Feb-18	US2010-0039810	2010-Dec-21	7854536	2029-Aug-13	
US	2009-Aug-13	16/557,928			2021-Apr-13	10976027	2029-Aug-13	
US	2009-Aug-13	15/083,074			2019-Mar-05	10222030	2029-Aug-13	
US	2009-Aug-14	61/233,829						
US	2009-Aug-14	61/234,094						Yes
US	2009-Sep-02	13/120347	2011-Jul-21	US 8552662	2013-Oct-08	8552662	2029-Sep-02	
US	2009-Sep-04	13/062955	2011-Jul-07	US 8579473	2013-Nov-12	8579473	2030-Jul-11	
US	2009-Sep-11	13/062981	2011-Jun-30	US 8723204	2014-May-13	8723204	2030-Mar-10	Yes
US	2009-Sep-16	13/062983	2011-Jul-07	US 8541949	2013-Sep-24	8541949	2030-May-07	Yes
US	2009-Sep-30	12/570,914	2010-May-06	US2010-0109934	2012-Jul-31	8232909	2030-Sep-22	Yes
US	2009-Sep-30	13/561,612	2012-Nov-22	US2012/0293076	2013-Aug-27	8519883	2029-Sep-30	Yes
US	2009-Oct-07	12/575272	2010-Apr-15	US 8829812	2014-Sep-09	8829812	2029-Oct-07	
US	2009-Oct-07	61/249483						
US	2009-Oct-25	61/254,709						
US	2009-Oct-25	61/254,709						Yes
US	2009-Oct-26	61/279750						
US	2009-Oct-26	61/279750						
US	2009-Oct-26	61/279755						
US	2009-Oct-28	61/255,491						Yes
US	2009-Nov-03	13/126196	2011-Aug-25	US 8414138	2013-Apr-09	8414138	2029-Dec-26	
US	2009-Nov-10	12/615513	2010-Feb-25	US 2010046227	2019-Oct-15	10443797	2029-Nov-10	
US	2009-Nov-12	12/617,127	2011-May-12	US2011-0110085	2012-Nov-13	8308320	2030-Sep-24	Yes
US	2009-Nov-12	13/108407	2013-Sep-12	US 8760043	2014-Jun-24	8760043	2029-Nov-12	
US	2009-Nov-12	13/128945	2011-Oct-13	US 8314537	2012-Nov-20	8314537	2029-Nov-12	
US	2009-Nov-12	13/671,199	2011-May-12	US2011-0110085	2014-Jan-21	8632214	2029-Nov-12	Yes
US	2009-Nov-16	61/267,707						Yes

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US	2009-Nov-26	13/131143	2011-Sep-29	US 2011234366	2017-Feb-21	9578722	2029-Nov-26	Yes
US	2009-Nov-27	16046234	2018-Nov-15	US2018-0332143-A1	2018-Nov-27	10142443	2029-Nov-27	
US	2009-Nov-27	13/133457			2018-Sep-11	10075558	2030-Sep-03	
US	2009-Nov-30	12/627461		US 8096691	2012-Jan-17	8096691	2020-May-30	
US	2009-Nov-30	12/591,737	2010-Dec-23	US 2010320921	2012-Feb-28	8125161	2030-Sep-14	Yes
US	2009-Nov-30	13/143634	2011-Nov-03	US 8292471	2012-Oct-23	8292471	2029-Nov-30	
US	2009-Dec-11	12/636243	2011-Jun-16	US 2011141728 A1	2013-Aug-13	8506127	2031-Apr-29	
US	2009-Dec-28	13/061154	2011-Jun-23	US 2011148313	2017-Jul-11	9706612	2033-May-29	
US	2009-Dec-30	12/650139		US 8317371	2012-Nov-27	8317371	2029-Dec-30	
US	2010-Jan-04	13/143733	2011-Nov-03	US 8628220	2014-Jan-14	8628220	2030-Sep-24	
US	2010-Jan-05	13/143608	2011-Nov-10	US 8602621	2013-Dec-10	8602621	2030-Jul-23	
US	2010-Jan-12	13/146926	2012-May-03	US 8937557	2015-Jan-20	8937557	2030-Jan-12	Yes
US	2010-Jan-20	12/690,794	2010-May-27	US2010-0128489	2011-May-17	7942559	2030-Jan-20	
US	2010-Jan-20	12/690,821	2010-Jul-01	US2010-0165625	2011-Aug-09	7993036	2027-Feb-26	
US	2010-Jan-27	12/694353	2010-May-27	US 7986103	2011-Jul-26	7986103	2025-Jun-28	
US	2010-Feb-10	12/703334	2010-Oct-14	US 8602601	2013-Dec-10	8602601	2031-Oct-10	
US	2010-Feb-12	61/304,054						Yes
US	2010-Feb-26	13/254865	2012-Apr-19	US 8786198	2014-Jul-22	8786198	2030-Feb-26	Yes
US	2010-Mar-02	12/715,467	2010-Sep-09	US 2010225251	2014-Apr-15	8698420	2032-Sep-02	Yes
US	2010-Mar-10	12/721,204	2011-Sep-15	US2011/0219650	2013-Apr-02	8408737	2031-Jul-17	Yes
US	2010-Mar-11	61/339907						
US	2010-Mar-11	13/255956	2012-May-31	US 8587205	2013-Nov-19	8587205	2030-Mar-11	
US	2010-Mar-11	13/256235	2012-Apr-19	US 9404629	2016-Aug-02	9404629	2030-Mar-11	Yes
US	2010-Mar-15	13/259165	2012-Apr-19	US 2012091902	2017-Mar-07	9591725	2032-Jun-11	
US	2010-Mar-30	13/260752	2012-Feb-02	US 8556456	2013-Oct-15	8556456	2030-Jul-15	
US	2010-Mar-31	13/262873	2012-May-17	US 2012119639	2017-Sep-05	9754776	2034-Mar-22	
US	2010-Mar-31	61/319,726						Yes
US	2010-Apr-01	13/264164	2012-Feb-09	US 8698646	2014-Apr-15	8698646	2030-Oct-05	
US	2010-Apr-21	61/326,552						
US	2010-Apr-23	13/318788	2012-Jun-21	US 9175817	2015-Nov-03	9175817	2030-Apr-23	
US	2010-Apr-27	61/328247						
US	2010-May-05	13/320987	2012-Mar-15	US 8531111	2013-Sep-10	8531111	2030-Sep-18	
US	2010-May-07	12/775484	2011-Jan-06	US 8267549	2012-Sep-18	8267549	2031-Apr-02	
US	2010-May-07	12/775,757			2013-Mar-26	8405947	2031-Jul-26	
US	2010-May-07	13/848,610			2014-Mar-18	8675332	2030-May-07	
US	2010-May-10	12/776,725			2012-Nov-06	8305014	2031-May-21	Yes
US	2010-May-13	12/779461	2010-Sep-02	US 2010219745 A1	2011-Sep-06	8013515	2030-May-13	
US	2010-May-17	61/395589						
US	2010-May-21	12/785383	2011-Apr-28	US 8441202	2013-May-14	8441202	2030-May-21	
US	2010-May-21	13/321848	2012-Mar-22	US 9360203	2016-Jun-07	9360203	2030-May-21	
US	2010-May-24	12/785,981			2013-Jun-18	8466631	2031-Apr-09	Yes
US	2010-May-24	14/514,612	2015-Mar-05	US 2015061534	2016-Feb-02	9,253,844	2030-May-24	
US	2010-May-24	15/012,135	2016-May-26	US 2016150604	2018-Jan-09	9,867,243	2030-May-24	
US	2010-May-24	13/676,345	2013-May-23	US 2013127349	2014-Dec-30	8,922,136	2030-Aug-18	
US	2010-May-24	12/824,215	2011-Sep-01	US 2011210678	2014-Feb-04	8,643,308	2030-Jul-13	Yes
US	2010-May-24	12/785,498	2011-Nov-10	US 2011273098	2013-Feb-12	8,373,363	2030-Jul-13	
US	2010-May-24	13/662,979	2013-Aug-15	US 2013207556	2014-Aug-05	8,796,955	2030-May-24	
US	2010-May-26	13/322704	2012-Jun-28	US 8894238	2014-Nov-25	8894238	2031-Apr-12	
US	2010-May-28	13/376012	2012-Mar-29	US 8638036	2014-Jan-28	8638036	2030-Oct-05	Yes
US	2010-May-31	13/376219	2012-Apr-05	US 9226370	2015-Dec-29	9226370	2030-May-31	Yes
US	2010-Jun-04	13/376294	2012-Nov-01	US 9184497	2015-Nov-10	9184497	2030-Jun-04	
US	2010-Jun-04	12/794,544			2015-Oct-13	9159521	2034-Feb-10	Yes
US	2010-Jun-07	14/266,045	2016-Aug-18	US 2014232287	2016-May-03	9,332,608	2030-Jul-30	
US	2010-Jun-07	12/795,395	2011-Apr-28	US 2011095687	2011-Sep-06	8,013,545	2030-Jun-07	
US	2010-Jun-07	13/776,778	2013-Jun-27	US 2013162166	2013-Sep-10	8,531,137	2030-Jun-07	
US	2010-Jun-07	13/195,655	2012-Jul-26	US 2012187835	2013-Apr-16	8,421,376	2030-Jun-07	
US	2010-Jun-07	12,795,629	2011-Apr-28	US 2011098867	2012-May-22	8,185,333	2030-Aug-24	Yes
US	2010-Jun-07	13/610,732	2013-Aug-22	US 2013214699	2014-May-20	8,729,826	2030-Aug-01	
US	2010-Jun-07	15/137,211	2016-Aug-18	US 2016242266	2018-Feb-20	9,900,965	2030-Jun-07	
US	2010-Jun-08	12/795816	2010-Sep-23	US 7950825	2011-May-31	7950825	2030-Jun-08	
US	2010-Jun-09	13/378381	2012-Jun-21	US 8633650	2014-Jan-21	8633650	2030-Jun-09	
US	2010-Jun-11	13/379037	2012-May-03	US 8845146	2014-Sep-30	8845146	2030-Jun-11	
US	2010-Jun-14	13/379052	2012-Apr-26	US 8227968	2012-Jul-24	8227968	2030-Jun-14	
US	2010-Jun-15	13/379044	2012-Apr-26	US 8680779	2014-Mar-25	8680779	2030-Nov-19	
US	2010-Jun-16	12/817143	2010-Oct-07	US 8047699	2011-Nov-01	8047699	2030-Jun-16	
US	2010-Jun-16	12/817146	2010-Sep-30	US 8262272	2012-Sep-11	8262272	2030-Jun-16	
US	2010-Jun-16	12/817144	2010-Oct-07	US 8016459	2011-Sep-13	8016459	2030-Jun-16	
US	2010-Jun-22	13/380587	2012-Apr-26	US 9155138	2015-Oct-06	9155138	2030-Jun-22	
US	2010-Jul-08	12/832358	2010-Oct-28	US 7959326	2011-Jun-14	7959326	2028-Nov-12	
US	2010-Jul-09	61/363161						
US	2010-Jul-09	61/363161						
US	2010-Jul-14	13/386479	2012-May-17	US 8939605	2015-Jan-27	8939605	2030-Jul-14	
US	2010-Jul-19	14/092,603			2015-Dec-15	9212792	2030-Jul-19	Yes
US	2010-Jul-19	13/386488	2012-Jul-12	US 9468079	2016-Oct-11	9468079	2033-Dec-08	
US	2010-Jul-19	14/968,693			2017-Nov-07	9810417	2030-Dec-22	Yes
US	2010-Jul-19	13/237,094			2013-Dec-03	8596837	2030-Dec-08	Yes
US	2010-Jul-21	13/387372	2012-May-24	US 9420672	2016-Aug-16	9420672	2030-Jul-21	Yes
US	2010-Jul-21	12/840301	2011-Mar-10	US 8246200	2012-Aug-21	8246200	2030-Jul-21	
US	2010-Jul-27	13/386700	2012-May-24	US 8723431	2014-May-13	8723431	2031-Feb-10	
US	2010-Aug-10	13/809293						Yes
US	2010-Aug-11	12/854200	2011-Mar-03	US 8120279	2012-Feb-21	8120279	2030-Aug-11	
US	2010-Aug-13	12/856,009	2012-Feb-16	US 2012038286	2013-May-07	8,436,549	2031-Mar-10	
US	2010-Aug-17	13/392261	2012-Jun-14	US 9066402	2015-Jun-23	9066402	2030-Aug-17	Yes
US	2010-Aug-18	14/105615	2014-Apr-17	US 9345079	2016-May-17	9345079	2030-Aug-18	
US	2010-Aug-18	13/392530	2012-Aug-02	US 8629619	2014-Jan-14	8629619	2030-Nov-19	Yes
US	2010-Aug-18	13/392543	2012-Jun-21	US 8624513	2014-Jan-07	8624513	2030-Aug-18	
US	2010-Sep-01	13/391646	2012-Jun-14	US 8629622	2014-Jan-14	8629622	2031-Jan-17	
US	2010-Sep-07	13/496275	2012-Jul-05	US 9167652	2015-Oct-20	9167652	2030-Sep-07	



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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2010-Sep-09	61/381,354						
US	2010-Sep-09	13/202468		US 8622577	2014-Jan-07	8622577	2030-Sep-09	
US	2010-Sep-10	13/496539	2012-Jul-05	US 2012170265	2017-Aug-22	9743521	2032-Jun-27	Yes
US	2010-Sep-13	13/392637	2012-Jun-21	US 8746936	2014-Jun-10	8746936	2030-Sep-13	
US	2010-Sep-16	12/883,596	2012-Mar-22	US 2012070153	2013-Apr-16	8,422,889	2031-Jun-15	Yes
US	2010-Sep-16	13/862,360	2013-Sep-26	US 2013253925	2015-Jul-21	9,087,514	2031-Apr-05	Yes
US	2010-Sep-24	12/889760	2011-Jan-20	US 7891844	2011-Feb-22	7891844	2027-Mar-15	
US	2010-Sep-24	13/394341	2012-Jun-28	US 9220154	2015-Dec-22	9220154	2030-Sep-24	Yes
US	2010-Sep-29	13/500101	2012-Aug-02	US 9039252	2015-May-26	9039252	2031-May-05	
US	2010-Oct-08	12/900535	2011-Feb-03	US 8240900	2012-Aug-14	8240900	2030-Oct-08	
US	2010-Oct-22	61/405688						Yes
US	2010-Oct-26	13/481898	2012-Sep-20	US 8344630	2013-Jan-01	8344630	2030-Oct-26	
US	2010-Oct-26	12/912613	2011-Oct-06	US 8283875	2012-Oct-09	8283875	2030-Oct-26	
US	2010-Oct-26	13/706104	2013-Apr-18	US 8547024	2013-Oct-01	8547024	2030-Oct-26	
US	2010-Oct-26	12/912576	2011-Aug-25	US 8203277	2012-Jun-19	8203277	2030-Oct-26	
US	2010-Oct-28	12/914,575	2011-May-12	US 2011109244	2013-Sep-10	8,531,136	2031-Oct-07	Yes
US	2010-Oct-29	13/505767	2012-Sep-06	US 9338860	2016-May-10	9338860	2030-Oct-29	
US	2010-Oct-29	13/505547	2012-Aug-23	US 8729830	2014-May-20	8729830	2031-May-11	Yes
US	2010-Nov-04	61/410,259						Yes
US	2010-Nov-11	61/412,740						
US	2010-Nov-16	61/414,291						
US	2010-Nov-22	13/513870	2012-Nov-08	US 8668354	2014-Mar-11	8668354	2030-Nov-22	
US	2010-Nov-25	13/093700	2012-Apr-26	US 8686668	2014-Apr-01	8686668	2031-Oct-23	
US	2010-Nov-30	13/512409	2012-Sep-20	US 2012235594	2015-Sep-15	9137865	2031-Apr-30	
US	2010-Dec-10	13/513648						
US	2010-Dec-13	13/519422	2012-Nov-29	US 8827494	2014-Sep-09	8827494	2030-Dec-13	
US	2010-Dec-14	61/423,022						
US	2010-Dec-14	61/423,016						
US	2010-Dec-15	61/423144						Yes
US	2010-Dec-16	61/423,883						Yes
US	2010-Dec-20	12/973,338			2012-Sep-25	8272756	2030-Dec-20	
US	2011-Jan-04	13/628,185	2013-Jan-24	US 2013020943	2013-Jun-04	8,456,090	2031-Jan-04	Yes
US	2011-Jan-04	12/984,583	2011-Jul-07	US 2011163668	2012-Feb-14	8,115,397	2031-Jan-04	Yes
US	2011-Jan-04	US13/249,391			2012-May-22	8,183,783	2031-Jan-04	Yes
US	2011-Jan-21	US 61/435,268						Yes
US	2011-Jan-28	13/015,877			2013-Mar-26	8403533	2031-May-13	
US	2011-Feb-11	13/025615	2011-Jun-09	US 8144025	2012-Mar-27	8144025	2031-Feb-11	Yes
US	2011-Feb-14	13/026,957			2013-Apr-30	8430533	2031-Feb-14	Yes
US	2011-Feb-28	61/447,173						
US	2011-Feb-28	13/582417	2012-Dec-20	US 8729781	2014-May-20	8729781	2031-Feb-28	
US	2011-Feb-28	14/204557	2014-Jul-10	US 9383081	2016-Jul-05	9383081	2031-Feb-28	
US	2011-Feb-28	13/036,420			2013-Jun-25	8471488	2031-Feb-28	
US	2011-Mar-01	13/634956	2013-May-02	US 9456486	2016-Sep-27	9456486	2031-Mar-01	Yes
US	2011-Mar-11	13/636165	2013-Jun-06	US 2013141001	2016-Nov-01	9485833	2033-Nov-06	
US	2011-Mar-15	13/048,435			2015-Apr-21	9010956	2034-Jan-19	
US	2011-Mar-15	16/538,709			2020-Jan-07	10527264	2031-Mar-15	
US	2011-Mar-15	15/470,631			2019-Aug-13	10378738	2031-Mar-15	
US	2011-Mar-15	16/735,124			2020-Jun-09	10677429	2031-Mar-15	
US	2011-Mar-15	14/690,188			2017-Mar-28	9605842	2031-Mar-15	
US	2011-Mar-24	61/467,253						Yes
US	2011-Mar-25	13/072638	2011-Nov-03	US 8339066	2012-Dec-25	8339066	2031-Mar-25	
US	2011-Mar-31	13/077421	2012-Feb-02	US 2012025608	2019-Apr-16	10263532	2034-May-23	Yes
US	2011-Mar-31	13/077,955	2011-Oct-06	US 2011241559	2014-Feb-18	8,651,691	2032-Jan-31	Yes
US	2011-Apr-01	61/470597						
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US	2011-Apr-07	13/081852	2011-Oct-13	US 2011249431	2012-Oct-02	8277078	2031-May-26	
US	2011-Apr-13	13/085,917	2012-Jun-14	US 2012147604	2014-Feb-04	8,641,241	2031-Dec-01	
US	2011-Apr-13	61/475,059						Yes
US	2011-Apr-13	13/696414		US 8847475	2014-Sep-30	8847475	2031-Apr-13	Yes
US	2011-Apr-21	13/091,922			2014-Jul-14	8777460	2032-Oct-12	
US	2011-Apr-21	14/749,263			2016-Aug-02	9404628	2031-Apr-21	
US	2011-Apr-21	15/192,155			2017-Mar-07	9587814	2031-Apr-21	
US	2011-Apr-21	15/620,104			2018-Nov-27	10139062	2032-Oct-12	
US	2011-Apr-21	18/096,733	2023-May-18	US20230151938A1	2024-Feb-20	11906130	2031-Apr-21	
US	2011-Apr-21	13/092,039	2011-Dec-22	US2011/0310600 A1	2016-Jun-28	9377173	2032-Sep-15	
US	2011-Apr-21	14/330,728	2014-Oct-30	2014-0321131	2017-Jun-13	9677727	2032-Oct-12	
US	2011-Apr-21	16/680,231			2021-Jul-13	11060677	2034-Jul-24	
US	2011-Apr-21	17/372,193	2021-Nov-04	US-2021-0341113-A1	2023-Jan-17	11555588	2034-Jul-14	
US	2011-Apr-21	16/200,237			2019-Nov-12	10473280	2031-Apr-21	
US	2011-Apr-22	13/641982	2013-Feb-07	US 8937434	2015-Jan-20	8937434	2031-Apr-22	
US	2011-Apr-26	13/643570	2013-Feb-14	US 8981637	2015-Mar-17	8981637	2031-Apr-26	
US	2011-Apr-26	13/456,791	2012-Nov-01	US 2012274230	2015-Mar-03	8970123	2031-Oct-24	Yes
US	2011-Apr-27	13/695800	2013-Feb-28	US 8979337	2015-Mar-17	8979337	2031-Sep-27	
US	2011-May-16	13/108551	2011-Sep-08	US 8434897	2013-May-07	8434897	2028-May-02	
US	2011-May-17	13/109,609	2011-Sep-08	US2011/0216544	2012-Jul-03	8210722	2031-May-17	
US	2011-May-31	61/491676						Yes
US	2011-Jun-03	13/198,854	2012-Dec-06	US 2012306381	2014-Jul-15	8779681	2032-Mar-12	Yes
US	2011-Jun-03	14/329,241	2014-Oct-30	US 2014320024	2018-Jan-16	9872359	2031-Jun-03	Yes
US	2011-Jun-07	14/526,316		US 2015048162	2018-Jan-30	9,881,275	2031-Sep-29	Yes
US	2011-Jun-07	13/155,253	2012-Dec-13	US 2012312874	2014-Nov-25	8,893,968	2032-Feb-01	Yes
US	2011-Jun-13	61/496119						Yes
US	2011-Jun-14	13/159,798	2012-Dec-20	US 2012319616	2014-Sep-02	8820963	2032-Jan-13	Yes
US	2011-Jun-16	13/703717	2013-Oct-24	US 9288866	2016-Mar-15	9288866	2031-Jun-16	
US	2011-Jun-16	15/046,121	2016-Aug-25	US 9609717	2017-Mar-28	9609717	2031-Jun-16	
US	2011-Jun-20	13/808789	2013-May-02	US 9247616	2016-Jan-26	9247616	2031-Jun-20	Yes
US	2011-Jun-20	61/498864						
US	2011-Jun-24	13/810787	2013-May-09	US 8858248	2014-Oct-14	8858248	2031-Jun-24	
US	2011-Jun-30	61/503,369						Yes

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2011-Jun-30	13/174404		US 8593075	2013-Nov-26	8593075	2032-May-22	
US	2011-Jun-30	13/806340	2013-Apr-18	US 8845127	2014-Sep-30	8845127	2031-Jun-30	
US	2011-Jul-08	61/505636						Yes
US	2011-Jul-13	61/507168						
US	2011-Jul-14	13/810924	2013-May-16	US 9151467	2015-Oct-06	9151467	2031-Jul-14	
US	2011-Jul-20	61/509,951						
US	2011-Jul-21	13/188,043			2014-Jan-14	8629631	2032-Jul-08	
US	2011-Jul-25	61/511245						
US	2011-Jul-29	13/194699		US 8749173	2014-Jun-10	8749173	2031-Jul-29	
US	2011-Jul-29	14/102809	2015-Jun-11	US 9240725	2016-Jan-19	9240725	2031-Jul-29	
US	2011-Jul-29	13/194808	2012-Feb-02	US 8610364	2013-Dec-17	8610364	2032-Feb-23	
US	2011-Jul-29	61/513,376						Yes
US	2011-Aug-02	61/514,242						
US	2011-Aug-05	13/819884	2013-Jun-20	US 2013159754	2018-Jun-05	9990019	2034-Jun-09	
US	2011-Aug-08	61/521061						Yes
US	2011-Aug-11	13/816953	2013-Jun-13	US 9057492	2015-Jun-16	9057492	2031-Aug-11	
US	2011-Aug-15	61/523542						
US	2011-Aug-18	13/212537	2011-Dec-15	US 8773042	2014-Jul-08	8773042	2031-Aug-18	
US	2011-Aug-29	13/220,411			2014-Aug-05	8794792	2031-Aug-29	
US	2011-Aug-30	61/528,802						
US	2011-Sep-05	13/820571	2013-Jun-27	US 2013162172	2015-Jan-13	8933903	2031-Sep-20	Yes
US	2011-Sep-14	13/232,988	2012-Jun-14	US 2012146505	2012-Nov-20	8,314,571	2031-Sep-14	Yes
US	2011-Sep-19	61/536120						Yes
US	2011-Sep-19	13/825338	2013-Aug-08	US 2013201690	2018-Jul-24	10030850	2031-Nov-02	Yes
US	2011-Sep-22	61/537747						Yes
US	2011-Sep-23	61/538180						Yes
US	2011-Oct-06	61/543861						
US	2011-Oct-12	13/880069	2013-Aug-15	US 9163814	2015-Oct-20	9163814	2031-Oct-12	Yes
US	2011-Oct-14	61/547082						
US	2011-Oct-19	61/548882						
US	2011-Oct-20	61/549360						
US	2011-Nov-04	13/882,204	2012-May-10	US 2013235593	2015-Apr-28	9,016,900	2031-Nov-04	
US	2011-Nov-04	61/555647						
US	2011-Nov-04	13/872,321	2013-Sep-12	US 2013235592	2014-Oct-14	8,858,027	2031-Nov-04	
US	2011-Nov-04	13/872,327	2013-Sep-12	US 2013235593	2016-Mar-15	9,285,104	2031-Nov-04	
US	2011-Nov-04	13/289816	2015-Apr-28	US 9018851	2015-Apr-28	9018851	2033-Jul-15	Yes
US	2011-Nov-07	13/290,970	2012-May-17	US 2012120655				
US	2011-Nov-07	13/873,758	2013-Sep-19	US 2013242535	2015-Sep-08	9,127,829	2032-Jan-20	
US	2011-Nov-07	13/290,163	2012-May-24	US 2012126708	2016-Nov-15	9,497,808	2033-Oct-08	Yes
US	2011-Nov-11	61/558,529						
US	2011-Nov-14	61/531142						
US	2011-Nov-15	13/988140	2013-Sep-12	US 9119260	2015-Aug-25	9119260	2031-Nov-15	
US	2011-Nov-16	13/298002	2012-May-17	US 8547034	2013-Oct-01	8547034	2031-Nov-16	
US	2011-Nov-16	14/012775	2013-Dec-23	US 9155163	2015-Oct-06	9155163	2031-Nov-16	
US	2011-Nov-16	61/560409						
US	2011-Nov-17	61/560970						
US	2011-Nov-22	13/989472	2013-Sep-26	US 9313838	2016-Apr-12	9313838	2031-Nov-22	
US	2011-Nov-25	13/093705	2012-Mar-15	US 8598804	2013-Dec-03	8598804	2031-Nov-25	
US	2011-Dec-01	13/989546	2013-Sep-26	US 9265132	2016-Feb-16	9265132	2031-Dec-01	Yes
US	2011-Dec-01	13/308552	2012-Jun-07	US 8508156	2013-Aug-13	8508156	2032-Mar-12	
US	2011-Dec-09	13/996778	2013-Oct-10	US 9234635	2016-Jan-12	9234635	2031-Dec-09	
US	2011-Dec-14	13/997521	2013-Oct-17	US 9357614	2016-May-31	9357614	2031-Dec-14	Yes
US	2011-Dec-16	14/701,791	2015-Nov-26	US 9502984	2016-Nov-22	9502984	2031-Dec-16	Yes
US	2011-Dec-16	13/328801	2012-Jun-21	US 9025347	2015-May-05	9025347	2033-Jul-04	Yes
US	2011-Dec-22	13/334118	2012-Apr-19	US 8456089	2013-Jun-04	8456089	2031-Dec-22	
US	2012-Jan-04	13/343104	2012-May-03	US 8362715	2013-Jan-29	8362715	2032-Jan-04	
US	2012-Jan-06	61/583654						
US	2012-Jan-06	61/583707						
US	2012-Jan-06	61/583645						Yes
US	2012-Jan-11	13/978549	2014-Jan-02	US 9249965	2016-Feb-02	9249965	2032-Jan-11	
US	2012-Jan-13	61/586156						
US	2012-Jan-13	61/586140						
US	2012-Jan-19	61/588,537						
US	2012-Jan-20	13/355,182	2013-Jul-25	US 2013187572	2016-Aug-30	9,433,046	2034-Feb-26	Yes
US	2012-Jan-20	61/588,977						Yes
US	2012-Feb-01	61/593378						
US	2012-Feb-01	61/593354						
US	2012-Feb-01	13/983086	2013-Nov-28	US 2013313983	2017-Jan-03	9538596	2032-Feb-01	
US	2012-Feb-02	61/593906						
US	2012-Feb-02	61/593919						
US	2012-Feb-13	61/597858						Yes
US	2012-Feb-17	61/600,330						
US	2012-Feb-24	61/602710						
US	2012-Feb-28	13/828,670			2015-Sep-22	9140430	2032-Aug-18	
US	2012-Feb-28	14/860,524			2016-Nov-15	9494283	2032-Feb-28	
US	2012-Feb-28	14/733,644			2016-Oct-04	9,458,983	2032-Feb-28	
US	2012-Feb-28	13/407,401			2015-Jun-09	9,052,086	2032-Aug-28	
US	2012-Feb-28	14/729,941			2016-Sep-06	9,435,510	2032-Feb-28	
US	2012-Feb-28	15/257,730			2017-Feb-21	9,574,746	2032-Feb-28	
US	2012-Feb-28	16/292,105			2021-May-18	11009214	2032-Jul-30	
US	2012-Feb-28	15/351,056			2018-Jun-26	10006606	2032-Apr-11	
US	2012-Feb-28	16/017,521			2019-Mar-05	10222027	2033-Mar-14	
US	2012-Mar-08	61/608286						Yes
US	2012-Mar-09	61/608696						
US	2012-Mar-12	13/417622	2012-Jul-05	US 8816602	2014-Aug-26	8816602	2032-Mar-12	
US	2012-Mar-12	61/609506						Yes
US	2012-Mar-12	14/004745	2013-Dec-26	US 9313848	2016-Apr-12	9313848	2032-Mar-12	
US	2012-Mar-15	14/006358	2014-Feb-27	US 8917020	2014-Dec-23	8917020	2032-Mar-15	Yes

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2012-Mar-16	14/006988	2014-Jan-09	US 9377186	2016-Jun-28	9377186	2032-Mar-16	
US	2012-Mar-19	61/612562						
US	2012-Mar-20	61/613121						
US	2012-Mar-22	14/007402	2014-Jan-30	US 2014029247	2017-Mar-07	9587815	2032-Aug-27	
US	2012-Mar-23	14/007718	2014-Jan-16	US 2014015436	2016-Oct-25	9480116	2032-Mar-23	
US	2012-Mar-27	14/008580	2014-Jan-23	US 9301354	2016-Mar-29	9301354	2032-Mar-27	
US	2012-Mar-27	61/615927						
US	2012-Mar-27	13/431569		US 8482220	2013-Jul-09	8482220	2028-Mar-12	
US	2012-Mar-28	14/007492	2014-Jan-16	US 9313847	2016-Apr-12	9313847	2032-Mar-28	Yes
US	2012-Mar-28	14/009118	2014-Jan-16	US 9258868	2016-Feb-09	9258868	2032-Mar-28	Yes
US	2012-Mar-29	61/617108						
US	2012-Apr-02	61/619,018						
US	2012-Apr-02	14/042751	2015-Apr-02	US 2015092419	2020-May-12	10648623	2035-Feb-03	
US	2012-Apr-03	14/009865	2014-Jan-23	US 2014021857				
US	2012-Apr-03	61/619518						Yes
US	2012-Apr-05	61/620495						
US	2012-Apr-06	61/621046						
US	2012-Apr-17	14/114930	2014-Mar-20	US 2014077247	2017-Sep-05	9755117	2032-Apr-17	
US	2012-May-03	61/641949						
US	2012-May-03	13/463,107			2014-Sep-30	8845144	2033-Jan-02	
US	2012-May-04	14/556,949			2017-Aug-01	9719672	2032-Sep-05	
US	2012-May-04	13/464,077			2014-Dec-02	8899786	2032-Sep-05	
US	2012-May-08	61/643976						
US	2012-May-09	61/644571						Yes
US	2012-May-10	61/645102						Yes
US	2012-May-11	14/117391	2015-Mar-05	US 9301356	2016-Mar-29	9301356	2032-May-11	Yes
US	2012-May-11	61/645780						
US	2012-May-14	14/117047	2018-Feb-01	US-2018-0035503-A1	2019-May-21	10299331	2033-May-25	
US	2012-May-15	61/646934						Yes
US	2012-May-17	13/473839		US 8587211	2013-Nov-19	8587211	2028-Mar-12	Yes
US	2012-May-29	61/652375						Yes
US	2012-May-30	14/119683	2014-Apr-03	US 9416939	2016-Aug-16	9416939	2032-May-30	Yes
US	2012-Jun-01	14/126527	2014-May-01	US 9249962	2016-Feb-02	9249962	2032-Jun-01	
US	2012-Jun-04	61/654991						Yes
US	2012-Jun-05	13/488580		US 8581504	2013-Nov-12	8581504	2028-Dec-31	
US	2012-Jun-05	61/655548						
US	2012-Jun-11	14/123415	2014-May-01	US 9253847	2016-Feb-02	9253847	2032-Jun-11	Yes
US	2012-Jun-13	14/126084		US 9273832	2016-Mar-01	9273832	2032-Jun-13	Yes
US	2012-Jun-15	14/126097	2014-Aug-14	US 2014226337	2017-Jan-10	9541240	2032-Jun-15	Yes
US	2012-Jun-25	13/531661	2012-Oct-18	US 8491154	2013-Jul-23	8491154	2032-Jun-25	
US	2012-Jun-27	61/664885						
US	2012-Jun-27	61/664817						
US	2012-Jun-27	61/665027						Yes
US	2012-Jun-29	13/537301	2013-Jan-03	US 8947016	2015-Feb-03	8947016	2032-Feb-02	Yes
US	2012-Jul-05	14/131923	2014-Jun-19	US 2014168833	2018-Jun-12	9997909	2032-Jul-10	
US	2012-Jul-10	61/669891						Yes
US	2012-Jul-11	61/670173						Yes
US	2012-Jul-12	61/670682						
US	2012-Jul-16	61/671940						
US	2012-Jul-20	61/673814						Yes
US	2012-Jul-20	61/673794						Yes
US	2012-Jul-20	13/554,956			2015-Aug-18	9109774	2033-Feb-27	
US	2012-Jul-20	14/828,362			2017-Mar-28	9605830	2032-Aug-25	
US	2012-Jul-24	14/234519	2014-Jun-26	US 8957604	2015-Feb-17	8957604	2032-Jul-24	
US	2012-Jul-27	61/676460						Yes
US	2012-Jul-30	15/868,834			2018-Dec-11	10151469	2032-Jul-30	Yes
US	2012-Jul-30	13/562,061			2014-Oct-07	8851711	2032-Sep-18	Yes
US	2012-Jul-30	14/967,146			2016-Nov-15	9494309	2032-Jul-30	Yes
US	2012-Jul-30	13/562,089			2016-Mar-22	9291317	2032-Sep-24	Yes
US	2012-Jul-30	13/562,025			2015-Dec-15	9212795	2034-Apr-14	Yes
US	2012-Jul-30	16/215,262			2020-Apr-07	10612763	2032-Jul-30	Yes
US	2012-Jul-30	15/349,547			2018-Jan-16	9869462	2032-Jul-30	Yes
US	2012-Jul-31	14/131462	2014-May-22	US 2014140096	2017-Dec-19	9845921	2033-Oct-09	Yes
US	2012-Aug-01	13/563,789			2016-Feb-23	9270143	2034-Jul-19	
US	2012-Aug-02	14/237913	2014-Jul-24	US 9357600	2016-May-31	9357600	2032-Aug-02	
US	2012-Aug-02	14/236969	2014-Aug-31	US 9148924	2015-Sep-29	9148924	2032-Aug-02	Yes
US	2012-Aug-30	13/599,104			2015-Mar-31	8994296	2033-Mar-28	
US	2012-Aug-30	14/357626	2014-Sep-25	US 9301347	2016-Mar-29	9301347	2032-Aug-30	
US	2012-Aug-31	61/695809						
US	2012-Sep-11	14/344073	2014-Dec-25	US 9182110	2015-Nov-10	9182110	2032-Sep-11	Yes
US	2012-Sep-11	14/239936	2014-Jul-24	US 9345105	2016-May-17	9345105	2032-Sep-11	Yes
US	2012-Sep-12	61/699,965						
US	2012-Sep-14	14/343566	2014-Aug-07	US 9155150	2015-Oct-06	9155150	2032-Sep-14	Yes
US	2012-Sep-21	61/704026						Yes
US	2012-Sep-26	61/705655						
US	2012-Oct-05	14/346808	2014-Aug-21	US 2014232299	2018-Jul-24	10034340	2033-Apr-21	
US	2012-Oct-12	14/350443	2014-Sep-11	US 2014252992	2017-Jun-06	9674904	2032-Oct-12	
US	2012-Oct-15	13/651777	2013-Feb-14	US 8672519	2014-Mar-18	8672519	2032-Oct-15	
US	2012-Oct-19	14/358278	2014-Oct-23	US 9332603	2016-May-03	9332603	2032-Oct-19	
US	2012-Oct-19	14/352034	2014-Sep-11	US 8946978	2015-Feb-03	8946978	2032-Oct-19	
US	2012-Oct-26	61/718824						Yes
US	2012-Nov-07	61/723,587						
US	2012-Nov-09	13/673879		US 8912734	2014-Dec-16	8912734	2032-Nov-09	
US	2012-Nov-15	61/726624						
US	2012-Nov-16	14359249	2014-Oct-30	US 2014321115	2017-Jan-24	9551466	2032-Nov-16	
US	2012-Nov-29	13/689,155	2013-May-30	US 2013134895	2014-Nov-04	8,878,449	2032-Dec-22	Yes
US	2012-Dec-04	14/365127	2014-Oct-23	US 2014316742	2019-Apr-09	10254521	2035-Mar-30	Yes
US	2012-Dec-05	61/733476						Yes

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US	2012-Dec-10	14/367953	2014-Nov-27	US 2014347856	2017-Nov-07	9810380	2033-Mar-22	Yes
US	2012-Dec-11	14/365133		US 9380658	2016-Jun-28	9380658	2032-Dec-11	
US	2012-Dec-13	15/492,342	2014-Nov-13	2014/0334149	2020-Jan-21	10539310	2032-Dec-13	Yes
US	2012-Dec-13	16/741,802			2023-Mar-07	11598507	2033-Dec-31	Yes
US	2012-Dec-13	14/364,803	2014-Nov-13	2014/0334149	2017-May-23	9,657,930	2033-Feb-24	Yes
US	2012-Dec-18	US20120738861P						Yes
US	2012-Dec-26	13/726793	2013-May-09	US 8807765	2014-Aug-19	8807765	2032-Dec-26	
US	2013-Jan-02	14/370607	2014-Dec-25	US 8975820	2015-Mar-10	8975820	2033-Jan-02	
US	2013-Jan-02	14/350829	2014-Nov-13	US 9072142	2015-Jun-30	9072142	2033-Jan-02	
US	2013-Jan-02	14/370564	2014-Nov-06	US 9380659	2016-Jun-28	9380659	2033-Jan-02	
US	2013-Jan-04	14/370591		US 9350243	2016-May-24	9350243	2033-Jan-04	Yes
US	2013-Jan-08	61/749966						Yes
US	2013-Jan-10	14/371867	2015-Jan-01	US 9279547	2016-Mar-08	9279547	2033-Jan-10	
US	2013-Jan-15	14/375245	2015-Jan-22	US 9198250	2015-Nov-24	9198250	2033-Jan-15	
US	2013-Jan-18	14/375180	2015-Jan-01	US 2015002040	2017-Aug-22	9743467	2033-Jan-18	
US	2013-Jan-22	15/463,667			2019-Jan-29	10190754	2032-May-26	
US	2013-Jan-22	13/746,835			2017-Mar-21	9599315	2033-Aug-14	
US	2013-Jan-22	13/746,649			2015-Jun-23	9062866	2033-May-24	
US	2013-Jan-22	13/746,643			2015-Nov-17	9188294	2034-Jan-02	Yes
US	2013-Jan-22	13/746,817			2015-Aug-18	9109783	2033-Jun-30	
US	2013-Jan-25	14/372846	2014-Dec-04	US 9326344	2016-Apr-26	9326344	2033-Jan-25	
US	2013-Jan-25	14/375225	2015-Jan-22	US 2015221007	2017-Jan-10	9544966	2033-Jan-25	
US	2013-Jan-29	61/757785						Yes
US	2013-Jan-30	14/375913	2015-Jan-22	US 2015022123	2016-Oct-25	9480130	2033-Jan-30	Yes
US	2013-Feb-04	13/757919	2014-Jul-10	US 9429279	2016-Aug-30	9429279	2033-Feb-04	
US	2013-Feb-08	14/376253	2015-Jan-29	US 9282605	2016-Mar-08	9282605	2033-Feb-08	
US	2013-Feb-19	61/766265						Yes
US	2013-Feb-22	14/377197			2016-Dec-20	9526133	2033-Apr-07	
US	2013-Feb-22	14/384047	2015-Mar-12	US 2015069925	2017-May-16	9655176	2033-Jun-05	
US	2013-Mar-04	14/383680	2015-Jan-15	US 2015015165	2017-Nov-14	9820359	2033-Apr-18	Yes
US	2013-Mar-06	13/786585	2013-Jul-18	US 9060398	2015-Jun-16	9060398	2025-Jun-03	
US	2013-Mar-07	14/388437		US 9210750	2015-Dec-08	9210750	2033-Mar-07	
US	2013-Mar-07	13/788,827			2015-Aug-18	9110216	2033-Jul-26	
US	2013-Mar-07	14/815,288			2018-Aug-07	10042113	2033-Jun-09	
US	2013-Mar-07	16/056,299			2019-Nov-12	10473850	2033-Mar-07	
US	2013-Mar-08	14/385776		US 9326340	2016-Apr-26	9326340	2033-Mar-08	
US	2013-Mar-11	14/385781	2015-Jan-29	US 2015029713	2018-Aug-21	10054272	2035-Apr-16	
US	2013-Mar-12	14/603,834			2019-Jun-04	10309632	2033-May-18	
US	2013-Mar-12	13/795,631			2015-Nov-17	9188318	2033-May-18	
US	2013-Mar-12	16/430,066			2022-Mar-22	11280459	2033-Aug-01	
US	2013-Mar-13	14/037001	2015-Jan-13	US 8933648	2015-Jan-13	8933648	2033-Mar-13	Yes
US	2013-Mar-14	61/782,305						Yes
US	2013-Mar-14	13/829231		US 9520794	2016-Dec-13	9520794	2034-Aug-07	Yes
US	2013-Mar-15	13/833587		US 9184666	2015-Nov-10	9184666	2033-Mar-15	
US	2013-Mar-18	61/802916						Yes
US	2013-Mar-20	14/387260		US 9445465	2016-Sep-13	9445465	2033-Jun-09	
US	2013-Mar-22	13/849,140			2014-Aug-05	8794803	2031-May-13	
US	2013-Mar-27	14/390072		US 9288879	2016-Mar-15	9288879	2033-Mar-27	Yes
US	2013-Apr-01	16/011,097			2019-May-28	10302287	2033-Apr-01	
US	2013-Apr-01	14/607,751			2016-Nov-15	9494306	2033-Apr-01	
US	2013-Apr-01	16/422,681			2020-May-26	10663151	2033-Apr-01	
US	2013-Apr-01	15/267,961			2018-Jun-19	10001265	2033-Apr-01	
US	2013-Apr-01	13/854,290			2015-Feb-24	8960971	2033-Sep-12	
US	2013-Apr-02	14/390664	2015-Feb-05	US 2015035452	2017-Jan-03	9538592	2033-Aug-15	
US	2013-Apr-04	14/390439			2018-Oct-02	10090442	2033-Apr-04	
US	2013-Apr-05	61/809,167						
US	2013-Apr-16	14/395532			2016-Oct-25	9476580	2033-May-05	
US	2013-Apr-26	14/394763			2018-May-22	9980334	2033-Apr-26	
US	2013-May-06	14/400088	2015-Apr-23	US 2015108919	2016-Nov-22	9504115	2033-May-06	Yes
US	2013-May-07	13/888414	2013-Sep-19	US 8922134	2014-Dec-30	8922134	2033-May-07	Yes
US	2013-May-08	14/399769		US 9313852	2016-Apr-12	9313852	2033-May-08	Yes
US	2013-May-21	14/405554	2015-Jun-18	US 2015167930	2017-May-02	9638397	2033-May-29	Yes
US	2013-May-22	14/405174	2015-Jun-04	US 2015156884	2019-Jul-23	10362679	2033-May-22	Yes
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US	2013-May-28	14/402552	2015-Apr-23	US 9253855	2016-Feb-02	9253855	2033-May-28	Yes
US	2013-Jun-05	61/831,300						Yes
US	2013-Jun-10	61/833,139						
US	2013-Jun-13	13/917194		US 8963449	2015-Feb-24	8963449	2033-Jun-13	
US	2013-Jun-17	14/409143		US 9450481	2016-Sep-20	9450481	2033-Jun-17	
US	2013-Jun-18	14/409171	2015-May-28	US 9370079	2016-Jun-14	9370079	2033-Jun-18	Yes
US	2013-Jun-26	14/409105		US 9426861	2016-Aug-23	9426861	2033-Jun-26	
US	2013-Jul-03	13/934761	2014-Dec-18	US 9119268	2015-Aug-25	9119268	2033-Jul-03	
US	2013-Jul-04	14/415678			2017-Oct-24	9801244	2033-Jul-04	Yes
US	2013-Jul-08	14/413767			2019-Oct-22	10448579	2033-Jul-08	Yes
US	2013-Jul-09	14/413368		US 9398668	2016-Jul-19	9398668	2033-Jul-09	Yes
US	2013-Jul-10	14/413013		US 9383069	2016-Jul-05	9383069	2033-Jul-10	
US	2013-Jul-12	14/415821	2015-Jun-18	US 9313861	2016-Apr-12	9313861	2033-Jul-12	Yes
US	2013-Jul-12	14415436			2017-Mar-21	9603216	2033-Jul-12	
US	2013-Jul-12	15/091749	2016-Jul-28	US 2016219681	2017-Sep-26	9775220	2033-Jul-12	Yes
US	2013-Jul-15	14/417203		US 9345099	2016-May-17	9345099	2033-Jul-15	Yes
US	2013-Jul-15	13/942220		US 8742684	2014-Jun-03	8742684	2028-Dec-19	Yes
US	2013-Jul-19	61/856,552						Yes
US	2013-Aug-19	61/867326						
US	2013-Aug-21	13/972102	2016-Feb-16	US 9263964	2016-Feb-16	9,263,964	2034-May-19	Yes
US	2013-Aug-26	14/010087	2013-Dec-26	US 9000680	2015-Apr-07	9000680	2033-Aug-26	
US	2013-Aug-27	15/901,625			2019-Oct-15	10443829	2033-Aug-27	
US	2013-Aug-27	15/186,122			2018-Mar-13	9915417	2033-Aug-27	
US	2013-Aug-27	61/870593						Yes

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US	2013-Aug-27	16/588,665			2020-Oct-06	10794579	2033-Aug-27	
US	2013-Aug-27	14/011,446			2016-Jun-21	9374869	2034-Aug-20	
US	2013-Aug-28	14/429577			2017-May-23	9661722	2033-Sep-13	Yes
US	2013-Sep-03	61/872,250						Yes
US	2013-Sep-09	US20130875193P						Yes
US	2013-Sep-17	14/428648			2018-Feb-13	9890942	2034-Jan-17	
US	2013-Sep-24	14/428652		US 9351357	2016-May-24	9351357	2033-Sep-24	
US	2013-Sep-30	61/884361						Yes
US	2013-Oct-04	14/847,819	2015-Dec-31	US 2015377466	2016-Oct-11	9,468,052	2033-Oct-04	Yes
US	2013-Oct-04	14/530,042	2015-Feb-26	US 2015054406	2015-Oct-06	9,155,145	2033-Oct-04	Yes
US	2013-Oct-04	14/046,459	2015-Jan-22	US 2015021629	2015-Jan-27	8,941,129	2033-Oct-04	Yes
US	2013-Oct-10	14/050478	2014-Feb-06	US 8979319	2015-Mar-17	8979319	2033-Oct-10	
US	2013-Oct-15	61/891,284						
US	2013-Oct-17	14/438643			2017-Jun-27	9689555	2033-Nov-21	Yes
US	2013-Oct-24	15/136,926	2016-Sep-01	US 2016255690	2017-Aug-08	9,730,284	2033-Oct-24	Yes
US	2013-Oct-24	14/614,361	2015-May-28	US 2015145415	2016-May-24	9,351,358	2033-Oct-24	Yes
US	2013-Oct-24	14/062,079	2015-Jan-22	US 2015022101	2015-Mar-10	8,975,821	2033-Oct-24	Yes
US	2013-Oct-25	14/063583	2014-Feb-20	US 9253849	2016-Feb-02	9253849	2033-Oct-25	
US	2013-Nov-14	61/904095						Yes
US	2013-Nov-20	14/085,509			2015-Dec-01	9200765	2034-Feb-01	
US	2013-Dec-02	14/651733		US 9351367	2016-May-24	9351367	2033-Dec-02	
US	2013-Dec-05	14/649244			2018-Jun-26	10006608	2034-Apr-02	
US	2013-Dec-05	14/649356	2016-Oct-20	US 2016305615	2018-Feb-13	9890928	2034-Jul-13	Yes
US	2013-Dec-18	14/133,178			2016-Jan-12	US 9237613 B1	2033-Dec-18	Yes
US	2014-Jan-03	14/759799			2016-Nov-08	9491834	2034-Jan-03	Yes
US	2014-Jan-08	61/924745						Yes
US	2014-Jan-15	14/155642	2014-May-08	US 8823274	2014-Sep-02	8823274	2034-Jan-15	
US	2014-Jan-29	14/764284			2019-Mar-26	10240749	2034-Jan-29	Yes
US	2014-Jan-30	14/168,452	2015-Jan-22	US 2015022088	2016-Jan-26	9,247,594	2034-Sep-22	Yes
US	2014-Feb-11	61/938,267						Yes
US	2014-Feb-17	14/767736			2019-Feb-19	10208938	2034-Aug-12	Yes
US	2014-Feb-28	61/946178						
US	2014-Mar-05	14/772571	2016-Feb-04	US 2016033099	2017-Nov-21	9822940	2034-Aug-12	
US	2014-Mar-12	14/779707	2016-Sep-29	US 2016286629	2018-Feb-27	9907147	2034-Mar-12	Yes
US	2014-Mar-12	14/779816			2017-May-16	9651730	2034-Mar-12	
US	2014-Mar-24	61/969517						Yes
US	2014-Apr-01	14/740,964	2015-Oct-01	2015-0276195	2018-Jun-26	10006618	2034-Nov-16	
US	2014-Apr-01	14/879,695			2018-Jun-19	10001270	2034-Dec-06	
US	2014-Apr-01	14/740,975			2016-Nov-15	9494307	2034-Apr-06	
US	2014-Apr-01	14/242,381	2014-Oct-09	2014-0301092	2015-Jun-30	9068722	2034-Apr-01	
US	2014-Apr-01	14/242,552			2017-Apr-18	9625109	2034-Nov-15	
US	2014-Apr-01	14/804,062			2019-Sep-10	10408436	2036-May-18	
US	2014-Apr-01	14/242,535	2015-Apr-16	2015-0103536	2015-Jul-21	9086198	2034-Apr-01	
US	2014-Apr-01	15/488,609			2019-Jan-08	10174916	2034-Apr-01	
US	2014-Apr-01	14/242,396			2015-Jun-23	9062837	2034-Apr-01	
US	2014-Apr-01	16/008,503	2015-Oct-01	2015-0276195	2020-Jun-16	10684003	2034-Apr-22	
US	2014-Apr-01	16/170,769	2017-Jan-12	2017-0009965	2020-Jun-16	10683994	2034-Apr-01	
US	2014-Apr-02	14/782483	2016-Mar-10	US 2016073474	2017-Nov-07	9814123	2034-Jul-07	
US	2014-Apr-21	14/786738	2016-Mar-17	US 2016076754	2017-Oct-17	9791141	2034-Apr-21	Yes
US	2014-Apr-21	14/888833	2016-Mar-17	US 2016081145	2017-Jan-17	9549447	2034-Apr-21	Yes
US	2014-Apr-30	14/888789	2016-Mar-24	US 2016088721	2018-Jan-16	9872381	2034-Sep-19	Yes
US	2014-Apr-30	14/266003			2017-Apr-25	9635723	2034-Apr-30	Yes
US	2014-May-12	US201400991905P						Yes
US	2014-May-12	14/274931			2017-May-23	9660547	2032-Jun-23	
US	2014-May-14	61/992961						Yes
US	2014-May-20	62/000565						Yes
US	2014-Jun-02	62/006,479						
US	2014-Jun-04	14/895183			2016-Nov-01	9485828	2034-Jun-04	
US	2014-Jun-05	14/897203			2017-Mar-21	9603222	2034-Jun-05	Yes
US	2014-Jun-16	14/895555	2016-Apr-21	US 2016113091	2017-Oct-24	9801252	2034-Jun-16	Yes
US	2014-Jun-27	14/902919			2018-Mar-27	9930166	2034-Jun-27	Yes
US	2014-Jul-01	62/019,802						Yes
US	2014-Jul-03	14/906,337		US 9445483	2016-Sep-13	9445483	2034-Jul-03	Yes
US	2014-Jul-16	14/905180	2016-Jun-02	US 2016157304	2017-Jan-24	9554436	2034-Jul-16	Yes
US	2014-Jul-23	14/902750	2016-Jun-16	US 2016174308	2017-Aug-22	9743466	2034-Jul-23	
US	2014-Aug-14	14907061			2017-Jun-06	9671101	2034-Aug-14	Yes
US	2014-Aug-14	14/908023	2016-Jun-30	US 2016186982	2017-May-23	9657934	2034-Aug-14	Yes
US	2014-Aug-18	14/903389	2016-Jun-16	US 2016174326	2016-Oct-25	9480123	2034-Aug-18	Yes
US	2014-Aug-18	14/913137	2016-Jul-21	US 2016212807	2018-Feb-20	9900939	2034-Aug-18	Yes
US	2014-Aug-19	14/906404			2017-Feb-07	9565744	2034-Aug-19	
US	2014-Aug-22	14/910,636	2016-Jul-07	US 2016198548	2017-May-16	9655207	2034-Aug-22	Yes
US	2014-Aug-27	14/907994	2016-Jun-16	US 2016174329	2019-Jun-04	US 10314135	2034-Aug-27	
US	2014-Aug-28	62/042,836						Yes
US	2014-Aug-29	14/907,171			2017-Apr-11	9622317	2034-Aug-29	Yes
US	2014-Sep-03	14/476,716			2017-Sep-05	9756703	2035-Nov-16	Yes
US	2014-Sep-15	15/024220	2016-Sep-15	US 2016270193	2018-Jan-02	9860963	2034-Oct-26	Yes
US	2014-Oct-01	62/058138						
US	2014-Oct-08	15/028143	2016-Aug-25	US 2016243379	2021-Mar-16	10946211	2036-Aug-01	Yes
US	2014-Oct-14	15/029722	2016-Aug-11	US 2016234902	2017-May-09	9648689	2034-Oct-14	
US	2014-Oct-24	15/034562	2017-Jul-06	US-2017-0196053-A1	2018-Feb-13	9894722	2034-Oct-24	
US	2014-Oct-28	15/505,875	2017-Aug-24	US 20170245336	2018-Nov-13	10,129,943	2034-Oct-28	
US	2014-Nov-04	15/030579	2016-Sep-15	US 2016270161	2016-Dec-06	9516720	2034-Nov-04	Yes
US	2014-Nov-12	15/038131	2016-Sep-29	US 2016286621	2018-Jun-26	10009975	2034-Nov-12	
US	2014-Dec-01	US20140085776P						Yes
US	2014-Dec-05	15/038586	2016-Oct-13	US 2016302272	2018-Apr-17	9949325	2034-Dec-05	Yes
US	2014-Dec-11	14906594	2016-Sep-29	US 2016284949	2017-Jan-03	9537062	2034-Dec-11	Yes
US	2014-Dec-23	14/785932	2016-Oct-27	US 2016312965	2019-Dec-03	10495269	2034-Dec-23	
US	2014-Dec-29	15/110399	2016-Nov-17	US 2016338158	2017-Dec-05	9839080	2034-Dec-29	Yes

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US	2014-Dec-31	15/110531	2016-Nov-17	US 2016338173	2017-Dec-26	9854647	2034-Dec-31	Yes
US	2015-Jan-06	15/110848	2016-Dec-29	US 2016381767	2018-Jun-12	9999116	2035-Jan-07	Yes
US	2015-Jan-14	14/596617	2015-Jun-18	US 2015173146	2019-Jul-16	10356857	2035-Aug-22	
US	2015-Jan-15	15115407	2017-Jan-12	US 2017006848	2019-Apr-09	10251384	2035-Jul-26	Yes
US	2015-Jan-21	15/114,397	2016-Nov-24	US 2016345413	2018-Dec-18	10159138	2035-Jan-21	Yes
US	2015-Jan-23	14/604065		US 9433051	2016-Aug-30	9433051	2035-Jan-23	
US	2015-Jan-26	15114200	2017-Jan-05	US 2017002985	2018-Jun-12	9995437	2035-Jan-26	Yes
US	2015-Jan-27	14/906940	2016-Nov-24	US 9551471	2017-Jan-24	9551471	2035-Jan-27	Yes
US	2015-Jan-27	15/118668	2017-Feb-16	US 2017048934	2017-Sep-26	9775200	2035-Jan-27	
US	2015-Jan-30	15/114,393	2016-Nov-24	US 2016345414	2018-Jul-31	10039172	2035-Jan-30	Yes
US	2015-Feb-03	15116519	2016-Dec-08	US 2016356473	2017-Oct-17	9791139	2035-Feb-03	
US	2015-Feb-09	15/119900	2017-Mar-02	US 2017064169	2019-Oct-29	10462340	2035-Mar-11	Yes
US	2015-Feb-11	16/117,472	2019-Jan-10	US 2019014636	2019-Nov-19	10485072	2035-Feb-11	Yes
US	2015-Feb-11	15/005,104	2016-Jul-21	US 2016212817	2018-Oct-02	10,091,857	2035-Feb-11	Yes
US	2015-Feb-11	14/619,163	2015-Aug-13	US 2015230309	2016-Jan-26	9,247,603	2035-Feb-11	Yes
US	2015-Feb-13	15/122201	2016-Dec-22	US 2016374176	2017-Oct-10	9788394	2035-Feb-13	Yes
US	2015-Feb-16	15/122248	2016-Dec-22	US 2016374179	2017-Sep-19	9769906	2035-Feb-16	
US	2015-Feb-23	15117565	2016-Dec-15	US 2016366745	2019-Jun-25	10334686	2035-Feb-23	
US	2015-Mar-05	14/908841	2016-Dec-29	US 2016377248	2018-Jan-02	9857039	2035-Mar-05	Yes
US	2015-Mar-06	62/129,584						Yes
US	2015-Mar-06	62/129,589						Yes
US	2015-Mar-11	14/908216	2016-Dec-29	US 2016377272	2019-Aug-20	10386051	2035-Mar-11	Yes
US	2015-Mar-12	15/129183	2018-Jan-04	US2018-0007766-A1	2019-Jan-15	10182488	2035-Mar-12	Yes
US	2015-Mar-12	16/214499	2019-Apr-18	US 20190116651A1	2020-May-12	10652970	2035-Mar-12	Yes
US	2015-Mar-13	15/124415	2017-Jan-19	US 2017016584	2019-Mar-12	10228097	2035-Mar-13	
US	2015-Mar-17	15/127326	2017-May-25	2017-0150571 A1	2018-Jul-31	10039170	2035-Mar-17	Yes
US	2015-Mar-30	14/672721	2016-Apr-28	US 2016119987	2020-Aug-25	10757785	2037-Jun-07	Yes
US	2015-Apr-01	14/676,449	2015-Jul-23	US 9426866	2016-Aug-23	9426866	2035-Apr-01	
US	2015-Apr-09	US20150145050P						Yes
US	2015-Apr-09	14/682,811			2017-Dec-05	9835322	2036-Jun-13	Yes
US	2015-Apr-28	15/311174	2017-Mar-16	US-2017-0079111-A1	2018-Jun-12	9999108	2035-Apr-28	Yes
US	2015-Apr-29	16/259,977			2020-Jun-09	10677426	2035-Apr-29	
US	2015-Apr-29	14/699,915			2017-Dec-05	9835314	2036-Jan-22	
US	2015-Apr-29	15/820,126			2019-Jan-29	10190752	2035-Apr-29	
US	2015-Apr-30	14/701,138			2017-Jun-20	US 9683717 B1	2035-Dec-30	Yes
US	2015-May-01	14/702,555			2017-Oct-31	9803836	2036-Jan-07	
US	2015-May-06	US20150157761P						Yes
US	2015-May-21	14/718254	2016-Mar-31	US 2016095192	2017-Apr-04	9615434	2035-May-21	Yes
US	2015-May-27	15/317008	2017-Apr-13	2017-0105273 A1	2018-Oct-02	10091864	2035-May-27	Yes
US	2015-May-28	14/724,339			2017-May-16	9651238	2035-May-28	
US	2015-May-28	15/595,550			2018-Feb-13	9890943	2035-May-28	
US	2015-Jun-01	16587281	2020-Jan-23	US-2020-0025362-A1	2020-Oct-27	10816184	2035-Jun-01	
US	2015-Jun-01	15/323443	2017-May-18	2017-0138580 A1	2019-Oct-29	10458639	2035-Jun-01	
US	2015-Jun-08	15/320067	2017-Jun-08	2017-0164438 A1	2019-Mar-05	10225898	2035-Jun-08	
US	2015-Jun-11	14/736,996			2017-Aug-15	9732947	2033-Jan-22	
US	2015-Jun-19	15/322218	2017-May-18	2017-0142811 A1	2018-May-22	9980353	2035-Jun-19	
US	2015-Jun-24	15/322667	2017-May-18	2017-0141619 A1	2018-Nov-27	10141792	2036-Jan-04	
US	2015-Jul-01	14/788,837			2017-Jan-10	9541261	2035-Jul-01	Yes
US	2015-Jul-02	15/322931	2017-May-18	2017-0142812 A1	2018-May-08	9967958	2035-Jul-02	Yes
US	2015-Jul-06	15/324367	2017-Jun-29	US-2017-0184294-A1	2022-Aug-23	11421868	2035-Sep-06	Yes
US	2015-Jul-06	17/866337	2022-Nov-03	US-2022-0349565-A1				Yes
US	2015-Jul-08	15/326745	2017-Jul-20	US-2017-0208666-A1	2018-Dec-11	10154568	2035-Jul-08	Yes
US	2015-Jul-10	15/326921	2017-Jul-20	US-2017-0208673-A1	2021-Feb-23	10932345	2035-Jul-10	Yes
US	2015-Jul-10	15/328393	2017-Jul-27	US-2017-0211751-A1	2019-Jan-22	10184616	2035-Jul-23	Yes
US	2015-Jul-16	15/327219	2017-May-25	2017-0146220 A1	2019-Jan-22	10184642	2035-Jul-16	
US	2015-Jul-20	16/551,487			2020-Jan-28	10544924	2035-Jul-20	
US	2015-Jul-24	62/196,731						Yes
US	2015-Jul-24	14/807921			2017-Jul-18	9709222	2035-Aug-25	Yes
US	2015-Aug-10	US20150203201P						Yes
US	2015-Aug-25	14/835045			2017-Aug-29	9746171	2030-May-21	
US	2015-Aug-27	16/436,421			2020-Oct-27	10816179	2035-Aug-27	Yes
US	2015-Aug-27	62/210755						Yes
US	2015-Aug-27	14/837,597			2019-Jun-11	10,317,060	2037-Apr-15	Yes
US	2015-Sep-15	62/218,715						Yes
US	2015-Sep-18	62/220515						Yes
US	2015-Sep-21	14/860235		US 9497832	2016-Nov-15	9497832	2035-Sep-21	Yes
US	2015-Sep-23	15/515366	2017-Nov-02	US-2017-0318647-1	2018-Oct-30	10117314	2035-Sep-23	Yes
US	2015-Sep-25	15/516923	2017-Oct-26	US-2017-0311425-A1	2018-Sep-25	10085329	2035-Sep-25	
US	2015-Sep-30	15/515590	2018-Dec-06	US20080347771A1	2019-Nov-19	10480733	2035-Dec-02	
US	2015-Oct-07	US20150238440P						Yes
US	2015-Oct-07	US20150238427P						Yes
US	2015-Oct-27	15/522226	2017-Nov-09	US-2017-0325302-A1	2018-Sep-04	10070487	2035-Oct-27	Yes
US	2015-Nov-03	15/522722	2017-Nov-02	US-2017-0318633-A1	2019-Jan-01	10172211	2035-Nov-03	
US	2015-Nov-23	14/948445	2016-Mar-17	US 2016077599	2019-Apr-23	10271408	2027-May-21	
US	2015-Nov-30	14/953,989			2017-Apr-18	US 9629209 B1	2035-Nov-30	Yes
US	2015-Dec-03	15/505,877	2018-Sep-27	US 2018279452	2019-Jun-11	10,321,546	2035-Dec-03	Yes
US	2015-Dec-11	14/966607	2016-Apr-07	US 2016100472	2017-Apr-25	9635730	2035-Dec-11	Yes
US	2015-Dec-17	62/268,655						Yes
US	2016-Jan-04	14/987369	2016-Apr-28	US 2016116120	2019-Jun-25	10330297	2031-Dec-09	
US	2016-Jan-04	16426659	2019-Sep-12	US-2019-0277483-A1	2022-Mar-01	11262058	2031-Dec-09	
US	2016-Jan-22	15/406,458	2019-Feb-14	US 20190053353	2020-May-19	10660170	2036-Jan-22	Yes
US	2016-Jan-22	15/004,320	2017-Jul-27	US 20170215252	2018-May-29	9986621	2036-Jan-22	Yes
US	2016-Jan-22	15/982,960	2018-Oct-11	US 20180295702	2020-May-12	10652969	2036-Jan-22	Yes
US	2016-Feb-19	62/297,424						
US	2016-Mar-04	15/061,611			2017-May-30	9,665,262	2036-Mar-04	Yes
US	2016-Mar-04	15/061,600			2017-Aug-22	9743482	2036-Mar-04	Yes
US	2016-Mar-11	15/514,769	2018-Dec-20	US 2018368237	2021-Mar-16	10952305	2036-Mar-11	Yes
US	2016-Apr-05	15/091322	2016-Jul-28	US 2016219665	2017-Nov-14	9820348	2032-Mar-12	

## Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

## List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2016-Apr-06	15/091,649			2017-Aug-01	US 9723667 B1	2036-Apr-06	Yes
US	2016-Apr-07	15/093165	2016-Oct-13	US 2016302290	2017-Apr-25	9635743	2036-Apr-07	Yes
US	2016-Apr-07	15/092966	2016-Oct-13	US 2016301247	2019-Nov-05	10468910	2037-Sep-25	
US	2016-Apr-22	15/136367	2016-Oct-27	US 2016316536	2017-Nov-28	9832830	2036-Apr-22	
US	2016-May-04	15/146,104			2017-Oct-24	US 9801262 B1	2036-May-04	Yes
US	2016-May-23	15/161370	2016-Dec-08	US 2016360588	2018-May-08	9967935	2036-May-23	
US	2016-May-24	62/340,971						
US	2016-Jun-08	15/737886	2018-Oct-18	US-2018-0302963-A1	2019-Aug-06	10375782	2036-Jun-08	Yes
US	2016-Jul-21	15/215,923			2018-May-15	9970649	2036-Nov-25	Yes
US	2016-Jul-21	15/950,951			2020-Feb-25	10571113	2036-Jul-21	Yes
US	2016-Jul-27	62/367,507						
US	2016-Aug-05	62/371,394						Yes
US	2016-Aug-09	15/753833	2018-Aug-23	US-2018-0242430-A1	2020-Aug-18	10750598	2036-Aug-09	Yes
US	2016-Aug-10	15/233,365			2017-Jun-13	US 9681520 B1	2036-Aug-10	Yes
US	2016-Aug-23	15/757351	2018-Aug-23	US-2018-0242435-A1	2019-Jul-16	10356885	2036-Aug-23	Yes
US	2016-Aug-24	15246159	2017-Mar-02	US 2017059095	2021-Nov-16	11175000	2036-Aug-24	
US	2016-Aug-24	17501458	2022-Mar-03	US-2022-0065408-A1	2023-Sep-05	11746965	2036-Sep-20	
US	2016-Aug-24	15245327	2016-Dec-15	US 2016366743	2017-Apr-11	9622315	2031-Mar-01	Yes
US	2016-Aug-24	15/759397	2018-Sep-20	US-2018-0270933-A1	2020-Jun-09	10681792	2036-Aug-24	Yes
US	2016-Sep-14	15/265,241			2019-Dec-17	10512138	2037-Jan-02	Yes
US	2016-Oct-04	15/284,822			2020-Mar-17	US 10591323 B1	2036-Oct-04	Yes
US	2016-Oct-07	62/405,718						
US	2016-Oct-07	15/288,844			2017-Aug-08	9730291	2036-Oct-07	Yes
US	2016-Oct-07	15/287,941			2017-Jun-13	US 9681512 B1	2036-Oct-07	Yes
US	2016-Oct-12	15770601	2019-Feb-21	US-2019-0055468-A1	2020-Jun-02	10669478	2036-Oct-12	Yes
US	2016-Oct-17	15770366	2018-Nov-01	US-2018-0317290-A1	2019-Jun-18	10327302	2036-Oct-17	Yes
US	2016-Oct-20	15/298,981			2017-Nov-21	US 9826583 B1	2036-Oct-20	Yes
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US	2016-Oct-21	16/260696	2019-Mar-23	US-2019-0154247-A1	2020-May-26	10663158	2033-Apr-16	
US	2016-Nov-22	15/778528	2018-Dec-13	US 20180359826A1	2019-Mar-12	US 10231297	2036-Nov-22	
US	2016-Dec-01	16061083	2018-Dec-20	US 2018368239A1	2022-Jan-11	11224111	2037-Jan-24	Yes
US	2016-Dec-07	16/061208	2018-Dec-13	US-2018-0359649-A1	2020-Jan-14	10536864	2036-Dec-07	Yes
US	2017-Jan-06	15/399997	2017-Apr-27	2017-0118827-A1	2017-Dec-26	9854651	2034-Aug-19	
US	2017-Feb-16	16/601,334			2020-Jul-28	10726794	2037-Feb-16	
US	2017-Feb-16	15/696,808			2019-May-14	10292233	2037-Feb-16	
US	2017-Feb-16	17/314,092	2021-Aug-26	US-2021-0262636-A1	2022-Aug-09	11408588	2037-Feb-16	
US	2017-Feb-16	15/727,833			2018-Oct-30	10,117,300	2037-Feb-16	
US	2017-Feb-16	16/840,982			2021-Aug-31	11105476	2037-Feb-16	
US	2017-Feb-16	15/892,192			2018-Dec-25	10163405	2037-Feb-16	
US	2017-Feb-16	16/412,215			2020-Mar-24	10602584	2037-Feb-16	
US	2017-Feb-16	16/014,394			2019-May-21	10299336	2037-Feb-16	
US	2017-Feb-16	15/685,358			2018-Feb-13	9892693	2037-Feb-16	
US	2017-Feb-16	16/108,741			2019-Dec-10	10,506,682	2037-Feb-16	
US	2017-Feb-16	16935554	2020-Nov-05	US-2020-0349896-A1	2022-Mar-22	11280460	2037-Apr-13	
US	2017-Feb-16	16/403,065			2020-Feb-25	10575380	2037-Feb-16	
US	2017-Feb-16	15/435,141			2017-Nov-14	9820350	2037-Feb-16	
US	2017-Feb-16	15/811,062			2019-May-21	10299335	2037-Feb-16	
US	2017-Feb-16	16/142,605			2019-May-14	10,290,265	2037-Feb-16	Yes
US	2017-Feb-16	16/195,452			2019-Oct-29	10460675	2037-Feb-16	
US	2017-Feb-16	17/877,688	2022-Nov-17	US20220364707	2023-May-30	11662078	2037-Feb-16	
US	2017-Feb-16	18/131940	2023-Nov-09	US-2023-0358389-A1				
US	2017-Feb-16	16/392,422		US 2020335049	2020-Aug-04	10,733,944	2037-Feb-16	Yes
US	2017-Feb-16	16/797,512			2021-Jan-26	10904970	2037-Feb-16	
US	2017-Feb-16	16/821,381			2021-May-11	11002424	2037-Feb-16	
US	2017-Feb-16	16/398,682			2020-Apr-07	10616969	2037-Feb-16	
US	2017-Feb-16	16/921040	2020-Oct-22	US 2020335049	2022-Aug-09	11408571	2037-Jun-05	Yes
US	2017-Mar-20	16/087164	2019-Apr-18	US 20190116645A1	2019-Aug-20	10390411	2037-Mar-20	Yes
US	2017-Mar-29	16/105,288			2019-Jul-16	10,356,860	2037-Mar-29	
US	2017-Mar-29	16/430,097			2020-Jul-21	10721803	2037-Mar-29	
US	2017-Mar-29	15/472,873			2018-Aug-21	10,057,948	2037-Mar-29	
US	2017-Mar-29	16926915	2020-Oct-29	US-2020-03448599-A1	2022-Apr-05	11297701	2037-Mar-29	
US	2017-Apr-03	15/477514	2017-Jul-20	US-2017-0205045-A1	2019-Jul-30	10364959	17/20/2033	Yes
US	2017-Apr-19	16/095056	2019-Apr-04	US-2019-0104596-A1	2019-Oct-01	10433399	2037-Apr-19	Yes
US	2017-May-02	62/500,364						Yes
US	2017-May-03	62/500,743						
US	2017-May-03	62/500,945						Yes
US	2017-May-18	15/598924	2017-Sep-07	US-2017-0257926-A1	2018-Oct-02	10091858	2034-Jun-16	Yes
US	2017-May-22	16306591	2019-Jun-20	US 20190186714A1	2021-Oct-19	11149925	2037-May-22	Yes
US	2017-Jun-29	15/651,941			2020-Apr-21	10627093	2037-Jun-29	Yes
US	2017-Jun-29	15/636,923	2018-Nov-08	US 2018320878	2019-Nov-26	10488028	2037-Jul-01	Yes
US	2017-Jul-05	US20170528773P						Yes
US	2017-Jul-27	15/661,930			2019-Jan-08	10174917	2037-Jul-27	
US	2017-Jul-27	16/324664	2019-Jun-06	US-2019-0174606-A1	2020-Jan-21	10542611	2037-Jul-27	Yes
US	2017-Jul-27	16/241,836			2020-Aug-04	10731829	2037-Jul-27	
US	2017-Aug-07	16/191,902	2018-Feb-08	2018-0042076	2019-Nov-05	10470270	2037-Aug-07	Yes
US	2017-Aug-07	16/595,966	2020-Feb-06	US 20200045787A1	2020-Jun-30	10701778	2037-Aug-07	Yes
US	2017-Aug-07	15/670,659	2018-Feb-08	2018-0042076	2018-Dec-11	10154560	2037-Aug-07	Yes
US	2017-Aug-07	15/670,671	2018-Feb-08	2018-0038581	2019-Feb-05	10201057	2037-Aug-07	Yes
US	2017-Aug-16	17/096,165	2021-Mar-04	US 2021063006	2022-May-17	11333341	2037-Aug-16	Yes
US	2017-Aug-16	16/239,626			2021-Mar-02	10935227	2037-Aug-16	Yes
US	2017-Aug-16	15/678,880			2019-Feb-19	10208940	2037-Aug-16	Yes
US	2017-Aug-16	17/734,105	2022-Aug-18	US-2022-0260240-A1	2023-Oct-03	11774082	2037-Aug-16	Yes
US	2017-Sep-01	US20170553200P						Yes
US	2017-Sep-26	62/563,418						Yes
US	2017-Sep-29	US20170565619P						Yes
US	2017-Oct-02	15/722574	2018-Jan-25	US-2018-0027623-A1	2019-May-14	10292225	2033-Jul-04	Yes
US	2017-Oct-06	16/450,378			2020-Apr-14	10,624,170	2037-Oct-06	
US	2017-Oct-06	15/727,248			2019-Jun-25	10,334,678	2037-Oct-06	

Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement

List of Patents

CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date	Additional Patent
US	2017-Oct-10	16/343117	2019-Aug-22	US-2019-0261484-A1	2020-Feb-04	10555399	2037-Oct-10	Yes
US	2017-Nov-29	15/825,944			2019-Apr-16	US 10264641 B1	2037-Dec-15	Yes
US	2017-Dec-09	16890788	2020-Sep-17	US-2020-0296811-A1	2022-Jun-28	11371682	2038-Mar-06	
US	2017-Dec-09	16/708,016	2020-Apr-16	US 20200120775A1	2020-Jun-09	10/681,785	2037-Dec-09	
US	2017-Dec-18	16/336139	2019-Oct-17	16336139	2020-Jun-02	10670194	2037-Dec-18	
US	2017-Dec-21	16/479974	2019-Dec-12	US-2019-0380178-A1	2020-Mar-17	10595375	2037-Dec-21	Yes
US	2018-Jan-05	15/863405	2019-Jul-11	US-2019-0215934-A1	2020-Mar-03	10582593	2034-Mar-12	Yes
US	2018-Jan-26	US20180622373P						Yes
US	2018-Feb-07	15890391	2018-Aug-16	US-2018231710	2021-Feb-02	10908351	2038-Feb-07	Yes
US	2018-Feb-19	16489417	2020-Jan-09	US 20200015340A1	2020-Nov-17	10842006	2038-Feb-19	Yes
US	2018-Apr-27	16/574,518			2021-Jun-22	11041595	2038-Apr-27	
US	2018-Apr-27	15/964,880			2019-Sep-24	10422494	2038-Apr-27	
US	2018-May-02	15/969,470	2018-Nov-08	US 20180317398	2019-Dec-24	10512221	2038-May-02	Yes
US	2018-May-23	15/987,362			2019-Dec-10	10502397	2038-Jun-03	
US	2018-May-23	16/708,118			2020-Nov-17	10837625	2038-May-23	
US	2018-Aug-29	16/116,072			2019-Mar-26	10243473	2038-Aug-29	Yes
US	2018-Oct-01	16/148,850			2019-Nov-19	10485079	2038-Oct-01	Yes
US	2019-Jan-25	16/257,695			2019-Dec-17	10512143	2038-Jan-25	Yes
US	2019-Mar-01	16/290,414			2019-Dec-10	10,502,404	2038-Jun-21	
US	2019-Mar-01	16/911627	2020-Oct-15	US 2020326062	2021-Aug-10	11,085,621	2038-Jun-21	
US	2019-Mar-01	16/707,892			2020-Jul-21	10,718,501	2038-Jun-21	
US	2019-Sep-06	US20190896650P						Yes
US	2019-Oct-01	16/589,146	2020-Jan-30	US 2020032993	2022-May-31	11346540	2036-Jul-21	Yes
US	2019-Oct-21	17/288,743	2022-Apr-21	US 20220120426	2022-Oct-11	11466847	2039-Oct-21	Yes
US	2020-Sep-01	17/008,868			2021-Sep-14	11122668	2040-Sep-01	Yes
US	2021-Jul-09	17/371,423			2022-Nov-29	RE49320	2032-Jul-10	
US	2023-Jan-26	18101764	2023-Jun-01	US 20230167968A1	2024-Jan-02	11859796	2028-Sep-22	

LEGEND

CTY	Country Code as used by WIPO
App. No.	Number of the patent application at the respective patent office
Fil. Date	Filing Date
Pub. No.	Publication Number
Pub. Date	Publication Date
Grant No.	Grant Number
Grant Date	Grant Date
Expiry Date	Estimated Expiry Date*
Additional Patent	Rights marked "Yes" are Additional Patents under the EnabLED Licensing Program
* In case the estimated expiry date deviates from the actual expiry date, the latter prevails.	

NOTES:

- The above list of Patents is for information purposes only and may be updated from time to time. In the event of any discrepancy between the above information and any patent license agreement related to this licensing program, the patent license agreement shall prevail.
- For any question, contact us at: [info.SSLicensing@signify.com](mailto:info.SSLicensing@signify.com)