

## 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
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	2001-Jan-08	01907413.7			2006-Jun-14	E330448	2021-Jan-08
AT	2001-Apr-24	03028671.0			2010-Apr-14	E 464771	2021-Apr-24
AT	2001-Apr-24	07075990.7	2008-Feb-13	EP 1887836	2012-Mar-07	E548887	2021-Apr-24
AT	2001-Oct-25	01997118.3			2009-Jun-17	E434152	2021-Oct-25
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-May-09	03736588.9			2008-Dec-03	E416597	2023-May-09
AT	2003-Aug-28	03791823.2			2010-Jan-13	E455451	2023-Aug-28
AT	2003-Dec-11	03813686.7	2005-Sep-28	EP 1579735 A	2016-Mar-09	1579735	2023-Dec-11
AT	2005-Jul-14	05763182.2	2007-Apr-11	EP 1772044 A	2012-Sep-12	E575523	2025-Jul-14
AT	2005-Sep-19	05783602.5	2007-Jul-11	EP 1805452	2014-Apr-23	1805452	2025-Sep-19
AT	2006-Apr-03	06716702.3	2007-Nov-29	EP 1869365	2013-Jun-12	1869365	2026-Apr-03
AT	2006-May-24	06765708.0			2009-Mar-18	1889519	2026-May-24
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 A			2026-Dec-13
AT	2007-Sep-20	07826476.9			2011-Mar-02	E 500710	2027-Sep-20
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-Apr-04	08737714.9			2010-Oct-06	E 483939	2028-Apr-04
AT	2008-Dec-02	08857778.8	2010-Sep-29	EP 2232951 A	2011-Jul-06	2232951	2028-Dec-02
AU	1998-Aug-26	2006202217			2009-Jan-22	2006202217	2018-Aug-26
AU	1998-Aug-26	2003203584			2006-Jul-13	2003203584	2018-Aug-26
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AU	2006-May-23	2006249979			2011-Dec-08	2006249979	2026-May-23
BE	1998-Jan-22	98900141.7	1999-Jan-13	EP 0890059 A1	2004-Jun-23	0890059	2018-Jan-22
BE	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03
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BE	2006-Dec-13	11155525.6	2011-May-25	EP 2325670 A			2026-Dec-13
BE	2006-Dec-13	06842469.6	2008-Sep-10	EP 1966624	2011-Jun-29	1966624	2026-Dec-13
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BE	2008-Dec-02	08857778.8	2010-Sep-29	EP 2232951 A	2011-Jul-06	2232951	2028-Dec-02

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CTY	Filing Date	Application No.	Pub. Date	Pub. No.	Grant Date	Grant No.	Expiry Date
BR	2006-May-24	PI 0610118-6					2026-May-24
BR	2007-Aug-17	PI0715880-7					2027-Aug-17
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CA	2010-Jan-26	2691145			2016-Nov-08	2691145	2030-Jan-26
CH	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03
CH	2000-Nov-20	05076817.5	2005-Dec-28	EP 1610593	2015-Jul-08	1610593	2020-Nov-20
CH	2001-Apr-24	03028671.0			2010-Apr-14	1422975	2021-Apr-24
CH	2001-Apr-24	07075990.7	2008-Feb-13	EP 1887836	2012-Mar-07	1887836	2021-Apr-24

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CH	2002-Jun-21	02738518.6			2008-Dec-10	1405551	2022-Jun-21
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CH	2003-Aug-28	03791823.2			2010-Jan-13	1535495	2023-Aug-28
CH	2006-May-24	06765708.0			2009-Mar-18	1889519	2026-May-24
CH	2007-Nov-27	07862228.9			2011-Mar-02	2089656	2027-Nov-27
CH	2008-Dec-02	08857778.8	2010-Sep-29	EP 2232951 A	2011-Jul-06	2232951	2028-Dec-02
CN	1997-Aug-08	97191154.1	1998-Nov-18	CN 1199524 A	2003-Aug-27	97191154.1	2017-Aug-08
CN	1997-Sep-08	97191438.9	1999-Jan-13	CN 1205069 A	2003-Apr-16	97191438.9	2017-Sep-08
CN	1998-Jan-22	98800051.2	1999-May-05	CN 1216094 A	2003-Apr-30	98800051.2	2018-Jan-22
CN	1998-Jul-16	98801403.3	2000-Jan-12	CN 1241349 A	2005-Mar-09	98801403.3	2018-Jul-16
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CN	1999-Jun-17	99801067.7	2000-Nov-15	CN 1273759 A	2006-Nov-29	99801067.7	2019-Jun-17
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CN	1999-Dec-02	99802963.7	2001-Apr-11	CN 1291282 A	2003-Jul-09	99802963.7	2019-Dec-02
CN	2000-Jul-03	00801240.7	2001-Oct-03	CN 1316174 A	2007-May-30	00801240.7	2020-Jul-03
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CN	2000-Oct-12	00804517.8	2002-Mar-27	CN 1342387 A	2005-Feb-09	00804517.8	2020-Oct-12
CN	2000-Nov-17	00803336.6	2002-Jun-26	CN 1355936 A	2005-Nov-16	00803336.6	2020-Nov-17
CN	2000-Dec-18	00804656.5	2002-Apr-03	CN 1343289 A	2006-Nov-22	00804656.5	2020-Dec-18
CN	2001-Jan-08	01800162.9	2002-Aug-07	CN 1363198 A	2005-May-11	01800162.9	2021-Jan-08
CN	2001-Aug-19	01135741.X	2002-Mar-13	CN 1339664 A	2005-Jul-20	01135741.X	2021-Aug-19
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CN	2001-Nov-09	01806195.8	2003-Aug-13	CN 1436438 A	2007-May-30	01806195.8	2021-Nov-09
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CN	2001-Dec-12	01805636.9	2003-Sep-17	CN 1443304 A	2005-Feb-23	01805636.9	2021-Dec-12
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CN	2002-Feb-28	02800565.1	2003-Nov-26	CN 1459180 A	2008-Aug-27	02800565.1	2022-Feb-28
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CN	2002-Mar-19	02800893.6	2003-Dec-03	CN 1460393 A	2009-May-20	02800893.6	2022-Mar-19
CN	2002-Apr-25	02801561.4	2004-Jan-28	CN 1471630 A	2008-Jun-04	02801561.4	2022-Apr-25
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CN	2005-Apr-27	200580014515.6	2007-Apr-18	CN 1951157 A	2011-Feb-02	200580014515.6	2025-Apr-27
CN	2005-May-02	200580014299.5	2007-Apr-18	CN 1950791 A	2009-Sep-09	200580014299.5	2025-May-02
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CN	2006-Jul-05	200680025524.X	2008-Jul-16	1012223823 A	2010-May-19	200680025524.X	2026-Jul-05
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ES	2007-Sep-20	07826476.9			2011-Mar-02	2074866	2027-Sep-20

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IN	2007-Mar-02	4704/CHENP/2008			2016-Oct-21	276461	2027-Mar-02
IN	2007-Apr-20	5937/CHENP/2008			2016-Aug-05	274743	2027-Apr-20
IN	2007-Jun-19	6765/CHENP/2008					2027-Jun-19
IN	2007-Jul-03	126/CHENP/2009					2027-Jul-03
IN	2007-Aug-09	4602/CHENP/2009					2027-Aug-09
IN	2007-Aug-17	882/CHENP/2009					2027-Aug-17
IN	2007-Aug-22	974/CHENP/2009					2027-Aug-22
IN	2007-Sep-18	2289/CHENP/2009					2027-Sep-18
IN	2007-Sep-20	2428/CHENP/2009					2027-Sep-20
IN	2007-Sep-20	2045/CHENP/2009					2027-Sep-20
IN	2007-Sep-20	2426/CHENP/2009					2027-Sep-20
IN	2007-Sep-20	2431/CHENP/2009					2027-Sep-20
IN	2007-Oct-11	2645/CHENP/2009					2027-Oct-11
IN	2007-Oct-19	2701/CHENP/2009					2027-Oct-19
IN	2007-Oct-31	3012/CHENP/2009					2027-Oct-31
IN	2007-Nov-09	3217/CHENP/2009					2027-Nov-09
IN	2007-Nov-27	3697/CHENP/2009					2027-Nov-27
IN	2007-Nov-27	3470/CHENP/2009					2027-Nov-27
IN	2007-Dec-07	3934/CHENP/2009					2027-Dec-07
IN	2007-Dec-11	4032/CHENP/2009					2027-Dec-11
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IN	2007-Dec-12	4067/CHENP/2009					2027-Dec-12
IN	2008-Mar-19	6076/CHENP/2009					2028-Mar-19
IN	2008-Mar-31	6310/CHENP/2009					2028-Mar-31
IN	2008-Apr-23	6827/CHENP/2009					2028-Apr-23
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IN	2008-May-01	6974/CHENP/2009					2028-May-01
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IN	2008-Dec-22	4501/CHENP/2010					2028-Dec-22
IN	2008-Dec-29	4633/CHENP/2010					2028-Dec-29
IN	2009-Apr-03	6994/CHENP/2010	2011-Jul-22	6994/CHENP/2010			2029-Apr-03
IN	2009-Jul-22	1260/CHENP/2011					2029-Jul-22
IN	2009-Nov-30	5643/CHENP/2011					2029-Nov-30
IN	2010-Jan-04	5641/CHENP/2011					2030-Jan-04
IN	2010-Jan-05	5642/CHENP/2011					2030-Jan-05
IN	2010-Jul-14	975/CHENP/2012					2030-Jul-14
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IT	1998-Aug-26	98944539.0			2002-Aug-07	1016062	2018-Aug-26
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IT	1999-Sep-03	03011110.8	2004-Feb-25	EP 1391650	2014-Feb-26	1391650	2019-Sep-03
IT	1999-Sep-08	99969780.8	2000-Nov-02	EP 1047904 A1	2013-Apr-24	1047904	2019-Sep-08
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IT	2001-Aug-14	01203099.5			2009-Oct-14	1182396	2021-Aug-14
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IT	2002-May-30	02739485.7			2010-May-05	1393599	2022-May-30
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IT	2002-Jul-23	02755430.2	2004-May-06	EP 1415345 A	2014-Apr-23	1415345	2022-Jul-23
IT	2002-Sep-17	02773430.0	2004-Jun-16	EP 1428415	2012-Jul-18	1428415	2022-Sep-17
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IT	2003-May-09	03736588.9			2008-Dec-03	1502483	2023-May-09
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IT	2003-Dec-11	03813686.7	2005-Sep-28	EP 1579735 A	2016-Mar-09	1579735	2023-Dec-11
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IT	2005-Jun-28	05752840.8	2007-Mar-28	EP 1767065 A	2014-Jun-04	1767065	2025-Jun-28
IT	2005-Jul-14	05763182.2	2007-Apr-11	EP 1772044 A	2012-Sep-12	1772044	2025-Jul-14
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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 -A	2011-Nov-02	1878319	2026-Apr-19
IT	2006-May-11	06744912.4	2008-Feb-20	EP 1889518 A	2011-Dec-14	1889518	2026-May-11
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IT	2007-Nov-27	07849266.7	2009-Aug-26	EP 2092669 A	2013-Jun-26	2092669	2027-Nov-27
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IT	2008-Aug-14	08789608.0			2011-Apr-27	2181565	2028-Aug-14
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IT	2008-Dec-02	08857778.8	2010-Sep-29	EP 2232951 A	2011-Jul-06	2232951	2028-Dec-02
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IT	2010-Jan-05	10702908.4	2011-Nov-16	EP 2386043	2016-Apr-13	2386043	2030-Jan-05
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JP	1997-Sep-08	98-518128	2000-Feb-29	00-502500	2007-Nov-16	4040688	2017-Sep-08
JP	1998-Jan-22	98-529200	2000-Jun-06	00-507042	2007-Sep-21	4014227	2018-Jan-22
JP	1998-Jul-16	99-510709	2001-Jan-30	01-501361	2008-Jul-25	4159119	2018-Jul-16
JP	1998-Jul-16	99-510708	2001-Jan-30	01-501360	2009-Feb-20	4260226	2018-Jul-16
JP	1998-Jul-27	99-510721	2001-Jan-30	01-501363	2009-Jan-09	4240546	2018-Jul-27
JP	1998-Aug-26	2003-028908	2004-Jan-08	04-006253	2008-Dec-12	4230236	2018-Aug-26
JP	1998-Dec-17	09-051067			2012-Sep-07	5081181	2018-Dec-17
JP	1998-Dec-17	2011-86460			2016-Jan-08	5864881	2018-Dec-17
JP	1998-Dec-17	2015-090463			2016-Jul-08	5963287	
JP	1998-Dec-17	2007-186183	2008-Feb-14	08-034385	2010-Feb-05	4451899	2018-Dec-17
JP	1998-Dec-17	00-539392	2004-Apr-15	04-511878	2011-Apr-08	4718008	2018-Dec-17
JP	1998-Dec-17	2014-115668			2015-Jul-10	5775953	
JP	1999-Sep-08	00-572611	2002-Aug-13	02-525836	2009-Sep-18	4376464	2019-Sep-08

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JP	1999-Sep-17	2000-572951	2003-Oct-07	03-529889	2009-Aug-28	4366016	2019-Sep-17
JP	1999-Dec-02	00-589914	2002-Oct-08	02-533870	2008-Jun-27	4147004	2019-Dec-02
JP	1999-Dec-02	08-75819	2008-Aug-28	2008-198618	2010-Dec-10	4642870	2019-Dec-02
JP	2000-Jul-14	2001-510276	2003-Feb-04	03-504829	2008-Dec-12	4230145	2020-Jul-14
JP	2000-Jul-28	01-515660	2003-Feb-18	03-506838	2012-Sep-07	5079196	2020-Jul-28
JP	2000-Aug-07	01-520040	2003-Mar-04	2003-508798	2012-Jul-27	5048190	2020-Aug-07
JP	2000-Sep-15	01-527610	2003-Mar-18	03-511006	2010-Apr-30	4502353	2020-Sep-15
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JP	2000-Oct-12	01-534929	2003-Apr-08	03-513420	2011-Apr-28	4731079	2020-Oct-12
JP	2000-Oct-12	01-534931	2003-Apr-08	03-513454	2012-Jan-20	4908710	2020-Oct-12
JP	2000-Dec-18	01-552019	2003-Jun-24	03-519896	2010-Nov-05	4620924	2020-Dec-18
JP	2001-Jan-08	01-557340	2003-Jul-22	03-522393	2011-Apr-28	4731085	2021-Jan-08
JP	2001-Apr-24	2001-578157	2003-Oct-21	2003-531467	2014-Jan-24	5460940	2021-Apr-24
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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	04-501497	2011-Jul-01	4773673	2021-Jun-21
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JP	2001-Sep-05	02-526803	2004-Mar-25	04-509431	2011-May-27	4749653	2021-Sep-05
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JP	2001-Dec-03	02-549030	2004-May-27	04-515891	2008-Apr-25	4116435	2021-Dec-03
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JP	2001-Dec-12	02-553872	2004-Jun-10	04-517444	2009-Feb-20	4263484	2021-Dec-12
JP	2002-Feb-28	02-570478	2004-Aug-19	04-525563	2008-Jun-20	4141840	2022-Feb-28
JP	2002-Mar-14	02-573484	2004-Jul-02	04-519826	2008-Apr-25	4117196	2022-Mar-14
JP	2002-Apr-25	02-588121	2004-Sep-16	04-528566	2008-Jan-18	4067973	2022-Apr-25
JP	2002-May-10	2002-588729	2005-Apr-07	05-509245	2008-Oct-31	4208576	2022-May-10
JP	2002-May-24	02-592686	2004-Sep-02	04-527138	2011-Jan-07	4657579	2022-May-24
JP	2002-May-30	2003-501242	2005-Apr-14	05-510007	2009-Jul-31	4351040	2022-May-30
JP	2002-May-30	2007-320844	2008-Apr-03	2008-78162	2010-Mar-12	4474457	2022-May-30
JP	2002-Jun-05	2003-502812	2004-Nov-11	04-534355	2008-Aug-22	4173091	2022-Jun-05
JP	2002-Jul-18	03-514856	2004-Dec-02	04-536433	2008-Jun-13	4139326	2022-Jul-18
JP	2002-Jul-29	03-527366	2005-Jan-27	05-502869	2008-Mar-21	4098237	2022-Jul-29
JP	2002-Aug-09	03-521671	2005-Jan-06	05-500680	2009-Aug-21	4360903	2022-Aug-09
JP	2002-Sep-17	2003-529819	2005-Feb-10	05-504411	2010-May-28	4518793	2022-Sep-17
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JP	2002-Sep-30	03-535510	2005-Feb-24	05-505940-A	2009-May-29	4317751	2022-Sep-30
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JP	2002-Dec-20	03-557257	2005-May-12	05-513819	2010-Dec-10	4642355	2022-Dec-20
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JP	2003-May-09	04-504577	2005-Aug-18	05-524960	2009-Jul-24	4347794	2023-May-09
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JP	2003-Dec-03	03-404464	2004-Jul-02	04-186159	2010-Sep-17	4588994	2023-Dec-03
JP	2003-Dec-11	2004-561862	2006-Mar-30	2006-511082	2013-Dec-06	5426807	2023-Dec-11
JP	2003-Dec-11	04-561838	2006-Mar-30	06-511078	2012-Jan-13	4901104	2023-Dec-11
JP	2003-Dec-12	04-561856	2006-Mar-30	06-511081	2011-Sep-09	4818610	2023-Dec-12
JP	2004-Apr-22	2006-506559	2006-Nov-09	2006-525664	2012-Mar-30	4959324	2024-Apr-22

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JP	2004-Nov-05	06-539036	2007-May-10	2007-511903	2012-Nov-02	5122141	2024-Nov-05
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JP	2005-Mar-23	07-507874	2007-Nov-15	07-533092	2011-Jul-29	4792459	2025-Mar-23
JP	2005-Apr-27	07-512612	2007-Dec-13	2007-536720	2011-Apr-15	4722126	2025-Apr-27
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JP	2005-Jul-18	07-522101	2008-Mar-13	08-507820	2013-Jul-12	5312788	2025-Jul-18
JP	2005-Aug-02	07-524456	2008-Mar-27	08-509517	2012-Jun-29	5026969	2025-Aug-02
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JP	2005-Oct-17	2007-537446			2012-Oct-05	5102037	2025-Oct-17
JP	2005-Oct-26	07-538580			2012-Jul-27	5048506	2025-Oct-26
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JP	2007-Mar-02	08-558950			2014-Feb-14	5474357	2027-Mar-02
JP	2007-Mar-02	2008-557867			2012-Dec-07	5148515	2027-Mar-02
JP	2007-Apr-20	2009-508558	2009-Oct-01	2009-535833A	2014-Mar-07	5491855	2027-Apr-20
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JP	2009-Jul-22	2011-520630			2014-Apr-04	5514206	2029-Jul-22



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JP	2012-Apr-02	2014-501671			2016-Oct-14	6023168	2032-Apr-02
JP	2013-Mar-08	2013-046390			2016-Jan-15	5867871	2033-Mar-08
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KR	2004-Dec-09	10-2004-103566			2011-Nov-07	10-1083083	2024-Dec-09
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KR	2006-Jul-05	10-2008-7003516			2013-Aug-28	10-1303367	2026-Jul-05
KR	2006-Nov-07	10-2008-7013933			2012-Nov-27	10-1207324	2026-Nov-07
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MX	2007-Dec-07	2009/005915			2011-Aug-15	289327	2027-Dec-07
MY	2002-Jun-28	PI20022452			2007-Aug-30	MY-131472-A	2022-Aug-30
MY	2006-May-23	PI20062381			2012-Feb-29	MY-145509-A	2026-May-23
NL	1998-Jan-22	98900141.7	1999-Jan-13	EP 0890059 A1	2004-Jun-23	0890059	2018-Jan-22

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NL	2000-Nov-20	05076817.5	2005-Dec-28	EP 1610593	2015-Jul-08	1610593	2020-Nov-20
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PT	2002-Jun-21	02738518.6	2009-Mar-12	20090312	2008-Dec-10	1405551	2022-Jun-21

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LEGEND

CTY	Country Code as used by WIPO
App. No.	Number of the patent application at the Filing Date
Pub. No.	Publication Number
Pub. Date	Publication Date
Grant No.	Grant Number
Grant Date	Grant Date
Expiry Date	Estimated Expiry Date*

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