

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	1391650	2014-Feb-26	1391650	2019-Sep-03
AT	2000-Nov-20	05076817.5	2005-Dec-28	1610593	2015-Jul-08	1610593	2020-Nov-20
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BR	2007-Aug-17	PI0715880-7					2027-Aug-17

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BR	2007-Aug-22	PI 0715802-5					2027-Aug-22
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CH	2003-Aug-28	03791823.2			2010-Jan-13	1535495	2023-Aug-28

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

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

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

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

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

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

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

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

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

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

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

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GB	2007-Mar-02	07735026.2	2008-Nov-26	1994635-A	2012-Jun-27	1994635	2027-Mar-02



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

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

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IN	2007-Dec-11	4031/CHENP/2009					2027-Dec-11

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

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IN	2008-Mar-19	6076/CHENP/2009					2028-Mar-19
IN	2008-Mar-31	6310/CHENP/2009					2028-Mar-31
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IN	2008-Apr-30	7331/CHENP/2009					2028-Apr-30
IN	2008-May-01	6974/CHENP/2009					2028-May-01
IN	2008-May-02	7333/CHENP/2009					2028-May-02
IN	2008-May-02	7026/CHENP/2009					2028-May-02
IN	2008-Jun-09	121/CHENP/2010					2028-Jun-09
IN	2008-Oct-08	2584/CHENP/2010					2028-Oct-08
IN	2008-Dec-02	4134/CHENP/2010					2028-Dec-02
IN	2008-Dec-02	4135/CHENP/2010					2028-Dec-02
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
IN	2010-Oct-07	3894/CHENP/2012	2014-Feb-14	3894/CHENP/2012-A			2030-Oct-07
IN	2011-Apr-01	8057/CHENP/2012					2031-Apr-01
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IT	1998-Jan-22	98900141.7	1999-Jan-13	0890059-A1	2004-Jun-23	0890059	2018-Jan-22
IT	1998-Jul-28	98937339.4	2000-May-17	EP1000295	2014-Jul-23	1000295	2018-Jul-28
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IT	1999-Sep-03	03011110.8	2004-Feb-25	1391650	2014-Feb-26	1391650	2019-Sep-03
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IT	1999-Sep-17	99948820.8			2008-Jan-16	1046196	2019-Sep-17
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IT	2004-Nov-22	04811765.9			2010-Apr-28	1687692	2024-Nov-22

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

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IT	2005-Aug-02	05772133.4	2007-May-09	1782660	2011-Oct-12	1782660	2025-Aug-02
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IT	2007-Dec-07	07849372.3	2009-Sep-23	2103190-A	2012-Oct-17	2103190	2027-Dec-07
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IT	2009-Jul-22	09786669.3	2011-May-04	2316251-A	2012-May-09	2316251	2029-Jul-22
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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
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JP	1998-Dec-17	2011-86460			2016-Jan-08	5864881	2018-Dec-17
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JP	1998-Dec-17	2007-186183	2008-Feb-14	08-034385	2010-Feb-05	4451899	2018-Dec-17

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

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JP	1999-Sep-08	00-572611	2002-Aug-13	02-525836	2009-Sep-18	4376464	2019-Sep-08
JP	1999-Sep-13	00-571186	2002-Aug-13	2002-525814	2009-Apr-10	4290887	2019-Sep-13
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
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JP	2000-Oct-10	01-534928	2003-Apr-08	03-513453	2012-Jan-20	4908709	2020-Oct-10
JP	2000-Oct-12	01-534929	2003-Apr-08	03-513420	2011-Apr-28	4731079	2020-Oct-12
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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-Aug-20	01-248530	2002-Apr-26	02-124104	2011-May-27	4749623	2021-Aug-20
JP	2001-Sep-05	02-526803	2004-Mar-25	04-509431	2011-May-27	4749653	2021-Sep-05
JP	2001-Nov-09	02-543265	2004-May-13	04-514252	2009-Apr-17	4294954	2021-Nov-09
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
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JP	2002-Oct-16	03-539396	2005-Mar-17	05-507546	2008-Jul-11	4152885	2022-Oct-16
JP	2002-Nov-15	03-550561	2005-Apr-28	2005-512334	2009-Aug-07	4353804	2022-Nov-15
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JP	2003-May-09	04-504577	2005-Aug-18	05-524960	2009-Jul-24	4347794	2023-May-09
JP	2003-Jun-12	04-515363	2005-Oct-13	05-531140	2010-Jul-30	4558484	2023-Jun-12
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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
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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
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JP	2006-Sep-25	2012-151758			2016-Feb-12	5881168	2026-Sep-25
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JP	2006-Oct-02	08-534125	2009-Mar-19	09-512264	2012-Apr-13	4971338	2026-Oct-02
JP	2006-Nov-07	08-539576			2013-Feb-15	5198278	2026-Nov-07
JP	2006-Nov-13	08-540755			2013-Jul-19	5317699	2026-Nov-13
JP	2006-Nov-20	08-540774	2009-Apr-23	2009-516895	2013-Apr-26	5253176	2026-Nov-20
JP	2006-Dec-11	08-543993			2013-Apr-12	5243964	2026-Dec-11
JP	2006-Dec-13	08-546734			2014-Feb-28	5483527	2026-Dec-13
JP	2006-Dec-20	08-546051	2009-May-21	02520331-A	2015-Mar-27	5717947	2026-Dec-20
JP	2007-Jan-10	08-550883			2013-Mar-29	5231248	2027-Jan-10
JP	2007-Jan-26	08-551939	2009-Jul-09	09525595-A	2013-Aug-02	5329235	2027-Jan-26
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
JP	2007-May-02	2009-508612	2009-Oct-01	2009-536779A	2013-Jan-25	5185257	2027-May-02
JP	2007-Jun-19	2009-517512			2013-Feb-15	5198445	2027-Jun-19
JP	2007-Jun-20	2009-517521	2009-Dec-03	2009-543280	2013-Jun-21	5295106	2027-Jun-20
JP	2007-Jun-21	09-516049	2009-Nov-26	2009-541929	2013-Feb-15	5198442	2027-Jun-21

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

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JP	2007-Oct-11	09-531966			2014-Apr-11	5519284	2027-Oct-11
JP	2007-Oct-31	09-533629			2013-Aug-30	5350251	2027-Oct-31
JP	2007-Nov-06	09-535848			2013-Dec-06	5424888	2027-Nov-06
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JP	2007-Nov-09	09-536318			2013-Sep-20	5366815	2027-Nov-09
JP	2007-Nov-27	2013-218657			2016-Jul-29	5974242	2027-Nov-27
JP	2007-Nov-27	09-538825			2014-Apr-04	5513892	2027-Nov-27
JP	2007-Nov-27	09-538417			2013-Oct-25	5396278	2027-Nov-27
JP	2007-Dec-05	09-540909			2014-May-16	5543214	2027-Dec-05
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JP	2008-Aug-06	2010-519558	2010-Nov-25	2010-536139-A	2015-Jul-31	5785393	2028-Aug-06
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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
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JP	2010-Oct-07	2016-77619					
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JP	2013-Mar-08	2013-046390			2016-Jan-15	5867871	2033-Mar-08
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
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KR	2000-Aug-07	10-2001-7005214			2008-Jan-23	10-0799384	2020-Aug-07
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KR	2004-Dec-09	10-2004-103566			2011-Nov-07	10-1083083	2024-Dec-09
KR	2005-Mar-14	10-2006-7021272			2012-Sep-07	10-1182674	2025-Mar-14
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KR	2005-May-02	10-2006-7025609			2012-Aug-20	10-1177076	2025-May-02
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KR	2005-Jul-18	10-2007-7004351			2012-Oct-05	10-1190214	2025-Jul-18
KR	2005-Aug-02	10-2007-7005238			2012-Dec-03	10-1209696	2025-Aug-02
KR	2005-Sep-19	10-2007-7009712			2012-May-11	10-1147342	2025-Sep-19
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KR	2005-Nov-24	10-2007-7014805			2013-Nov-07	10-1329258	2025-Nov-24
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
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KR	2006-May-11	10-2007-7030168			2013-Aug-13	10-1298192	2026-May-11
KR	2006-May-23	10-2007-7029980			2013-Dec-13	10-1343562	2026-May-23
KR	2006-May-24	10-2007-7030347			2013-Mar-08	10-1243692	2026-May-24
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KR	2006-Dec-06	10-2008-7017076			2014-Nov-28	10-1468901	2026-Dec-06
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KR	2007-Jan-10	10-2008-7020167			2014-Feb-27	10-1370368	2027-Jan-10
KR	2007-Jan-26	10-2008-7021117			2013-Aug-28	10-1303362	2027-Jan-26



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
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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-Jun-21	10-2009-7001463			2013-Aug-28	10-1303360	2027-Jun-21
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
KR	2007-Aug-22	10-2009-7005632			2014-Nov-04	10-1460005	2027-Aug-22
KR	2007-Sep-20	10-2009-7009080			2013-Dec-19	10-1345354	2027-Sep-20
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-Feb-21	10-1376560	2027-Oct-11
KR	2007-Oct-19	10-2009-7010127					2027-Oct-19
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
KR	2007-Nov-27	10-2009-7013310			2015-May-22	10-1523993	2027-Nov-27
KR	2007-Dec-11	10-2009-7014358			2015-Jun-18	10-1531378	2027-Dec-11
KR	2007-Dec-11	10-2009-7014433					2027-Dec-11
KR	2007-Dec-12	10-2009-7014503					2027-Dec-12
KR	2008-Apr-15	10-2009-7024277			2016-Apr-29	10-1618582	2028-Apr-15
KR	2008-Apr-23	10-2009-7024700			2015-Apr-28	10-1517353	2028-Apr-23
KR	2008-Apr-28	10-2009-7025193			2015-Nov-24	10-1572819	2028-Apr-28
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KR	2008-May-02	10-2009-7025447			2015-May-22	10-1524005	2028-May-02
KR	2008-May-02	10-2010-7005002			2015-Sep-21	10-1555894	2028-May-02
KR	2008-May-02	10-2009-7025261			2015-Mar-04	10-1500977	2028-May-02
KR	2008-May-09	10-2009-7026170			2015-Oct-28	10-1565605	2028-May-09
KR	2008-Jul-21	10-2010-7003857					2028-Jul-21
KR	2008-Oct-08	10-2010-7010136			2016-Jan-18	10-1588033	2028-Oct-08
KR	2008-Dec-02	10-2010-7014991			2015-Jun-04	10-1527712	2028-Dec-02
KR	2008-Dec-22	10-2010-7016494			2015-Nov-24	10-1572811	2028-Dec-22
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KR	2009-Jul-22	10-2011-7004532					2029-Jul-22
KR	2009-Nov-30	10-2011-7018549					2029-Nov-30
KR	2010-Jan-04	10-2011-7018477					2030-Jan-04
KR	2010-Jan-05	10-2011-7018487					2030-Jan-05
KR	2010-Jul-14	10-2012-7004881					2030-Jul-14
KR	2010-Oct-07	10-2012-7011827	2012-Jul-24	2012-0082912			2030-Oct-07
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
MX	2007-Oct-11	2009/003898			2012-May-21	299363	2027-Oct-11
MX	2007-Oct-31	MX/A/09/004521			2011-Apr-04	285403	2027-Oct-31
MX	2007-Nov-27	MX/A/09/005600			2013-Apr-22	308889	2027-Nov-27
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	0890059-A1	2004-Jun-23	0890059	2018-Jan-22
NL	1998-Jul-28	98937339.4	2000-May-17	EP1000295	2014-Jul-23	1000295	2018-Jul-28
NL	1999-Sep-03	99943116.6			2003-Nov-05	1110198	2019-Sep-03
NL	1999-Sep-03	03011110.8	2004-Feb-25	1391650	2014-Feb-26	1391650	2019-Sep-03
NL	1999-Sep-08	99969780.8	2000-Nov-02	1047904-A1	2013-Apr-24	1047904	2019-Sep-08
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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
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NL	2001-Apr-24	07075990.7	2008-Feb-13	1887836	2012-Mar-07	1887836	2021-Apr-24
NL	2001-Aug-14	01203099.5			2009-Oct-14	1182396	2021-Aug-14
NL	2001-Oct-25	01997118.3			2009-Jun-17	1337784	2021-Oct-25
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NL	2003-May-09	03736588.9			2008-Dec-03	1502483	2023-May-09
NL	2003-Aug-28	03791823.2			2010-Jan-13	1535495	2023-Aug-28
NL	2004-Apr-21	04760087.9	2006-Feb-01	1620843	2015-Sep-02	1620843	2024-Apr-21
NL	2005-Sep-19	05783602.5	2007-Jul-11	1805452	2014-Apr-23	1805452	2025-Sep-19
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NL	2008-Dec-02	08857778.8	2010-Sep-29	2232951-A	2011-Jul-06	2232951	2028-Dec-02
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Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement  
List of Patents

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

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

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TW	2008-Jun-30	097124610	2009-May-16	200922370-A	2014-Nov-01	I459853	2028-Jun-30
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TW	2010-Jul-21	099124034	2011-May-16	201117637-A			2030-Jul-21
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US	1997-Oct-14	08/943310			1999-Sep-07	5947587	2017-Oct-14
US	1998-Jan-23	09/012319			2001-Jun-26	6250774	2018-Jan-23
US	1998-Jul-28	09/493119			2004-Sep-28	6796680	2018-Jul-28
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Annex A to the LED-based Luminaire and Retrofit Bulb Patent License Agreement  
List of Patents

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

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

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

\* In case the estimated expiry date deviates from the actual expiry date, the latter prevails.

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