

Essential Philips patents relevant to Blu-ray Disc player PC

<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT DATE</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>
AR	NL000002	P000105550	10/20/2000		10/31/2006	AR026202	10/20/2020	LINKING AREA IN READ-ONLY DISC
AT	N 014351	93203684.1	12/24/1993	0605924-A3	6/23/1999	E181614	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
AT	N 014448	94201153.7	4/27/1994	0624000-A3	7/19/2000	E194897	4/27/2014	PARITY PRESERVED CODING N-BIT WRDS I
AT	N 015471	95938001.5	12/6/1995	0745255-A1	10/23/2002	E226750	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
AU	N 017534	00-65620	7/5/2000	00-65620	1/6/2005	776531	7/5/2020	ONE ECC FOR DIFFERENT DATA
AU	NL000002	00-79194	10/12/2000	00-79194	11/4/2004	775190	10/12/2020	LINKING AREA IN READ-ONLY DISC
AU	NL020067	02-353342	12/12/2002	2002353342	11/1/2007	2002353342	12/12/2022	USE OF SAME ECC DECODER FOR DIFFER
AZ	N 017534	200100345	7/5/2000		2/27/2003	003166	7/5/2020	ONE ECC FOR DIFFERENT DATA
AZ	NL000002	200100684	10/12/2000		2/27/2003	003197	10/12/2020	LINKING AREA IN READ-ONLY DISC
BG	N 017534	105319	7/5/2000		8/18/2006	65000	7/5/2020	ONE ECC FOR DIFFERENT DATA
BG	NL000002	105628	10/12/2000		2/5/2007	65076	10/12/2020	LINKING AREA IN READ-ONLY DISC
BY	N 017534	200100345	7/5/2000		2/27/2003	003166	7/5/2020	ONE ECC FOR DIFFERENT DATA
BY	NL000002	200100684	10/12/2000		2/27/2003	003197	10/12/2020	LINKING AREA IN READ-ONLY DISC
CH	N 017300 A	03101849.2	1/10/2000		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
CN	N 014351	93121735.0	12/31/1993	1090668-A	1/14/2004	93121735.0	12/31/2013	INTERLAYER CROSSTALK IN MULTILAYER
CN	N 015471	95192103.7	12/6/1995	1144011-A	12/24/2003	95192103.7	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II

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CN	N 017534	00801396.9	7/5/2000	1354880-A	4/4/2007	CN1308954	7/5/2020	ONE ECC FOR DIFFERENT DATA
CN	NL000002	00803933.X	10/12/2000	1340189-A	9/5/2007	100336113	10/12/2020	LINKING AREA IN READ-ONLY DISC
CN	NL010727	02800697.6	3/14/2002	1459109-A	9/20/2006	02800697.6	3/14/2022	ISOLATED BIT SYNC
DE	N 013922	92203643.9	11/25/1992	0545472-A1	10/20/1999	69230168.2	11/25/2012	WOBBLE KEY
DE	N 014351	93203684.1	12/24/1993	0605924-A3	6/23/1999	69325437.8	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
DE	N 014448	94201153.7	4/27/1994	0624000-A3	7/19/2000	69425298.0	4/27/2014	PARITY PRESERVED CODING N-BIT WRDS I
DE	N 015471	95938001.5	12/6/1995	0745255-A1	10/23/2002	69528636.6	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
DE	N 015776	97901214.3	2/7/1997	0821828-A1	7/2/2003	69723165.8	2/7/2017	DVD - RAM RANDOM SHIFT
DE	N 016849	98959114.4	12/28/1998		7/26/2006	69835345.5	12/28/2018	ERROR FROM WELL PROTECTED TO OTHE
DE	N 017300 A	03101849.2	1/10/2000		6/1/2005	60020612.2	1/10/2020	WOBBLE FOR DVD ROM DISCS
EA	N 017534	200100345	7/5/2000	200100345	2/27/2003	003166	7/5/2020	ONE ECC FOR DIFFERENT DATA
EA	NL000002	200100684	10/12/2000	200100684	2/27/2003	003197	10/12/2020	LINKING AREA IN READ-ONLY DISC
EP	N 013922	92203643.9	11/25/1992	0545472-A1	10/20/1999	0545472	11/25/2012	WOBBLE KEY
EP	N 013922 A	99200856.5	11/25/1992	0930614-A1	3/31/2004	0930614	11/25/2012	WOBBLE KEY
EP	N 014351	93203684.1	12/24/1993	0605924-A3	6/23/1999	0605924	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
EP	N 014448	94201153.7	4/27/1994	0624000-A3	7/19/2000	0624000	4/27/2014	PARITY PRESERVED CODING N-BIT WRDS I
EP	N 015471	95938001.5	12/6/1995	0745255-A1	10/23/2002	0745255	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
EP	N 015776	97901214.3	2/7/1997	0821828-A1	7/2/2003	0821828	2/7/2017	DVD - RAM RANDOM SHIFT
EP	N 016849	98959114.4	12/28/1998	0965175-A1	7/26/2006	0965175	12/28/2018	ERROR FROM WELL PROTECTED TO OTHE

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EP	N 017300	A	03101849.2	1/10/2000	1372143-A3	6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
ES	N 015776		97901214.3	2/7/1997	0821828-A1	7/2/2003	0821828	2/7/2017	DVD - RAM RANDOM SHIFT
ES	N 017300	A	03101849.2	1/10/2000		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
FR	N 013922		92203643.9	11/25/1992	0545472-A1	10/20/1999	0545472	11/25/2012	WOBBLE KEY
FR	N 014351		93203684.1	12/24/1993	0605924-A3	6/23/1999	0605924	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
FR	N 014448		94201153.7	4/27/1994	0624000-A3	7/19/2000	0624000	4/27/2014	PARITY PRESERVED CODING N-BIT WRDS I
FR	N 015471		95938001.5	12/6/1995	0745255-A1	10/23/2002	0745255	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
FR	N 015776		97901214.3	2/7/1997	0821828-A1	7/2/2003	0821828	2/7/2017	DVD - RAM RANDOM SHIFT
FR	N 016849		98959114.4	12/28/1998		7/26/2006	0965175	12/28/2018	ERROR FROM WELL PROTECTED TO OTHE
FR	N 017300	A	03101849.2	1/10/2000		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
GB	N 013922		92203643.9	11/25/1992	0545472-A1	10/20/1999	0545472	11/25/2012	WOBBLE KEY
GB	N 014351		93203684.1	12/24/1993	0605924-A3	6/23/1999	0605924	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
GB	N 014448		94201153.7	4/27/1994	0624000-A3	7/19/2000	0624000	4/27/2014	PARITY PRESERVED CODING N-BIT WRDS I
GB	N 015471		95938001.5	12/6/1995	0745255-A1	10/23/2002	0745255	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
GB	N 015776		97901214.3	2/7/1997	0821828-A1	7/2/2003	0821828	2/7/2017	DVD - RAM RANDOM SHIFT
GB	N 016849		98959114.4	12/28/1998		7/26/2006	0965175	12/28/2018	ERROR FROM WELL PROTECTED TO OTHE
GB	N 017300	A	03101849.2	1/10/2000		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
HK	N 014351		98114078.9	12/24/1993	1012766-A	1/19/2001	HK1012766	12/23/2013	INTERLAYER CROSSTALK IN MULTILAYER
HK	N 015776		98106942.9	2/7/1997	1008600-A			2/7/2017	DVD - RAM RANDOM SHIFT

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HK	N 017534	01109055.2	7/5/2000	1039675-A			7/5/2020	ONE ECC FOR DIFFERENT DATA
HU	N 015776	P9901480	2/7/1997				2/7/2017	DVD - RAM RANDOM SHIFT
HU	N 017534	P0103944	7/5/2000		12/27/2005	224792	7/5/2020	ONE ECC FOR DIFFERENT DATA
HU	NL000002	P0105233	10/12/2000	P0105233			10/12/2020	LINKING AREA IN READ-ONLY DISC
ID	N 015776	P-970413	2/13/1997	017848-A	4/28/2004	ID0013245	2/13/2011	DVD - RAM RANDOM SHIFT
ID	N 017534	W-0100587	7/5/2000	029.404 A	6/29/2007	UNKNOWN	7/5/2020	ONE ECC FOR DIFFERENT DATA
ID	NL000002	W-0101317	10/12/2000	030247-A	6/14/2006	UNKNOWN	10/12/2020	LINKING AREA IN READ-ONLY DISC
IL	N 017534	141932	7/5/2000		10/6/2006	141932	7/5/2020	ONE ECC FOR DIFFERENT DATA
IN	N 017300	A	1/10/2000				1/10/2020	WOBBLE FOR DVD ROM DISCS
IN	NL000002	IN/PCT/01/00844	10/12/2000		8/14/2006	201831	10/12/2020	LINKING AREA IN READ-ONLY DISC
IT	N 013922	92203643.9	11/25/1992	0545472-A1	10/20/1999	0545472	11/25/2012	WOBBLE KEY
IT	N 013922	92203643.9	11/25/1992	0545472-A1	10/20/1999	0545472	11/25/2012	WOBBLE KEY
IT	N 014351	93203684.1	12/24/1993	0605924-A3	6/23/1999	0605924	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
IT	N 015776	97901214.3	2/7/1997	0821828-A1	7/2/2003	0821828	2/7/2017	DVD - RAM RANDOM SHIFT
IT	N 017300	A	03101849.2		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
JP	N 013922	92-321992	12/1/1992	93-325193	4/27/2001	3184852	12/1/2012	WOBBLE KEY
JP	N 014448	94-93412	5/2/1994	95-50588	4/5/2002	3294936	5/2/2014	PARITY PRESERVED CODING N-BIT WRDS I
KR	N 013922	92-23018	12/2/1992		7/14/2000	268621	12/2/2012	WOBBLE KEY
KR	N 014351	94-144	1/4/1994		2/14/2001	289018	1/4/2014	INTERLAYER CROSSTALK IN MULTILAYER

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KR	N 015471	96-704517	12/6/1995	97-0701413	10/24/2003	404530	12/6/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
KR	N 015776	97-707294	2/7/1997		4/27/2005	0487680	2/7/2017	DVD - RAM RANDOM SHIFT
KR	N 016849	10-1999-7007933	12/28/1998	00-75855	7/4/2006	10-0599225	12/28/2018	ERROR FROM WELL PROTECTED TO OTHE
KR	N 017534	10-2001-7003156	7/5/2000	10-2001-0079792	3/22/2007	10-0701257	7/5/2020	ONE ECC FOR DIFFERENT DATA
KR	NL000002	10-2001-7007727	10/12/2000	01-0089651	9/21/2007	10-0762804	10/12/2020	LINKING AREA IN READ-ONLY DISC
MX	NL000002	01006280	10/12/2000		3/18/2005	226819	10/12/2020	LINKING AREA IN READ-ONLY DISC
MY	N 015776	PI9700546	2/14/1997		8/30/2004	MY-117846-A	8/30/2019	DVD - RAM RANDOM SHIFT
MY	NL000002	PI20004903	10/18/2000		7/31/2006	125357	7/31/2021	LINKING AREA IN READ-ONLY DISC
NL	N 017300 A	03101849.2	1/10/2000		6/1/2005	1372143	1/10/2020	WOBBLE FOR DVD ROM DISCS
NZ	NL000002	512433	10/12/2000		6/9/2003	512433	10/12/2020	LINKING AREA IN READ-ONLY DISC
PL	N 015776	P322824	2/7/1997	P322824	6/3/2002	184577	2/7/2017	DVD - RAM RANDOM SHIFT
RU	N 017534	200100345	7/5/2000		2/27/2003	003166	7/5/2020	ONE ECC FOR DIFFERENT DATA
RU	NL000002	200100684	10/12/2000		2/27/2003	003197	10/12/2020	LINKING AREA IN READ-ONLY DISC
SE	N 014351	93203684.1	12/24/1993	0605924-A3	6/23/1999	0605924	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
SG	N 014351	9607095.8	12/24/1993	0048111	12/28/2001	48111	12/24/2013	INTERLAYER CROSSTALK IN MULTILAYER
SG	N 015776	9705144.5	2/7/1997		11/16/1999	46833	2/7/2017	DVD - RAM RANDOM SHIFT
SG	N 017534	200101416.6	7/5/2000		1/27/2006	79598	7/5/2020	ONE ECC FOR DIFFERENT DATA
TR	N 017534	01-00710	7/5/2000		7/21/2005	TR-2001-0071	7/5/2020	ONE ECC FOR DIFFERENT DATA
TW	N 013922	82100047	1/6/1993		11/24/1994	67132	1/6/2013	WOBBLE KEY

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TW	N 014351	83101489	2/22/1994		12/31/1994	67573	2/22/2014	INTERLAYER CROSSTALK IN MULTILAYER
TW	N 015471	088216250	2/27/1996		7/14/2003	201070	2/27/2016	TOC'S FOR MULTILAYER OPTICAL DISCS II
TW	N 015776	85106262	5/27/1996		10/29/1997	87771	5/27/2016	DVD - RAM RANDOM SHIFT
TW	N 016849	88100894	1/21/1999		5/3/2001	124993	1/21/2019	ERROR FROM WELL PROTECTED TO OTHE
TW	NL000002	089124264	11/16/2000		4/26/2004	NI-193757	11/15/2020	LINKING AREA IN READ-ONLY DISC
TW	NL020067	091132388	11/1/2002	200303526	6/21/2006	1257085	11/1/2022	USE OF SAME ECC DECODER FOR DIFFER
UA	NL000002	2001075185	10/12/2000		5/16/2005	72907	10/12/2020	LINKING AREA IN READ-ONLY DISC
US	N 013922	B 08/389445	2/15/1995		4/7/1998	5737286	12/1/2012	WOBBLE KEY
US	N 013922	C 08/980131	11/26/1997		7/27/1999	5930210	12/1/2012	WOBBLE KEY
US	N 013922	D 09/295535	4/21/1999		5/1/2001	6226244	12/1/2012	WOBBLE KEY
US	N 014351	08/175331	12/29/1993		4/23/1996	5511057	12/29/2013	INTERLAYER CROSSTALK IN MULTILAYER
US	N 014448	08/223875	4/6/1994		12/19/1995	5477222	4/6/2014	PARITY PRESERVED CODING N-BIT WRDS I
US	N 015471	08/573850	12/18/1995		4/9/2002	6370102	12/18/2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
US	N 015776	08/800633	2/14/1997		9/5/2000	6115340	2/14/2017	DVD - RAM RANDOM SHIFT
US	N 016849	09/218560	12/22/1998		4/23/2002	6378100	12/22/2018	ERROR FROM WELL PROTECTED TO OTHE
US	N 017300	A 10/382674	3/6/2003	2003-0165102-A1	5/30/2006	7054245	1/20/2020	WOBBLE FOR DVD ROM DISCS
US	N 017534	09/786102	7/5/2000		2/13/2007	7178083	5/29/2024	ONE ECC FOR DIFFERENT DATA
US	NL000002	09/691336	10/18/2000		9/30/2003	6628584	10/25/2021	LINKING AREA IN READ-ONLY DISC
US	NL020067	10/501824	12/12/2002	2005-0034047-A1	4/3/2007	7200795	3/26/2023	USE OF SAME ECC DECODER FOR DIFFER

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VN	N 015776	S19970933	2/7/1997		8/15/2001	2271	2/7/2017	DVD - RAM RANDOM SHIFT
VN	N 017534	1-2001-00232	7/5/2000		1/18/2005	4747	7/5/2020	ONE ECC FOR DIFFERENT DATA