

Annex A1 to the DVD Video Disc and DVD ROM Disc Patent License Agreement

Essential Philips Patents relevant to DVD-ROM Discs with Single Information Layer(s)

Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
AR	Disc size on disc	N 015093AR	334224	1995-Nov-14		2001-Oct-31	AR000131	2015-Nov-14	
AR	EFM+ channel coding	N 014746AR	331023	1995-Feb-15		2000-Jul-27	254412	2015-Jul-27	
AR	Block format error interleaving	N 014752AR	331070	1995-Feb-17		2001-Nov-21	255358	2016-Nov-21	
AT	EFM+ channel coding	N 014746AT	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	E173110	2015-Feb-01	
AT	Block format error interleaving	N 014752AT	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	E195033	2015-Feb-14	
AT	DC control for EFM+	N 015452AT	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	E201527	2016-Aug-26	
AT	Disc size on disc	N 015093AT	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	E192878	2015-Oct-31	
AT	Mastering write strategy	N 014950AT	94203621.1	1994-Dec-14	0660314-A1	2000-Dec-27	E198386	2014-Dec-14	
AU	EFM+ channel coding	N 014746AU	95-14240	1995-Feb-01	95-14240	1998-Nov-05	692822	2015-Feb-01	
AU	Block format error interleaving	N 014752AU	95-15449	1995-Feb-14	95-15449	1998-Jul-09	689203	2015-Feb-14	
AU	DC control for EFM+	N 015452AU	96-66667	1996-Aug-26		1999-Jul-15	703791	2016-Aug-26	
AU	Disc size on disc	N 015093AU	95-36720	1995-Oct-31		1999-Feb-25	698869	2015-Oct-31	
BE	Block format error interleaving	N 014752BE	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
BE	EFM+ channel coding	N 014746BE	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
BE	Disc size on disc	N 015093BE	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
BE	DC control for EFM+	N 015452BE	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
BG	Disc size on disc	N 015093BG	100723	1995-Oct-31		1999-Jul-30	62105	2015-Oct-31	
BG	EFM+ channel coding	N 014746BG	100774	1995-Feb-01		1999-Jul-21	62106	2015-Feb-01	
BR	EFM+ channel coding	N 014746BR	PI9506787.6	1995-Feb-01	PI9506787.6	2001-Aug-07	PI9506787.6	2015-Feb-01	
BR	Disc size on disc	N 015093BR	PI9506626.8	1995-Oct-31	PI9506626.8	2004-Feb-17	PI9506626.8	2015-Oct-31	
BR	EFM+ channel coding	N 014746BRB	PI9510741.0	1995-Feb-01		2004-Apr-27	PI9510741.0	2015-Feb-01	
BR	EFM+ channel coding	N 014746BRA	PI9510740.1	1995-Feb-01	PI9510740.1	2009-Mar-10	PI9510740-1	2015-Feb-01	
BW	DC control for EFM+	N 015452BW	98-00063	1998-Apr-22		1999-Dec-01	BW/P/99/00022	2018-Apr-22	
BW	Block format error interleaving	N 014752BW	98-00046	1998-Apr-21		1999-Dec-01	BW/P99/00023	2018-Apr-21	
BW	EFM+ channel coding	N 014746BW	98-00054	1998-Apr-22		1999-Dec-01	BW/P/99/00014	2018-Apr-22	

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Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
CA	EFM+ channel coding	N 014746CAA	2456968	1995-Feb-01		2005-Jan-25	2456968	2015-Feb-01	
CA	EFM+ channel coding	N 014746CA	2183355	1995-Feb-01		2006-May-30	2183355	2015-Feb-01	
CA	DC control for EFM+	N 015452CA	2205565	1996-Aug-26		2007-Jan-09	2205565	2016-Aug-26	
CA	Block format error interleaving	N 014752CA	2160572	1995-Feb-14		2003-Dec-16	2160572	2015-Feb-14	
CH	EFM+ channel coding	N 014746CH	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
CH	Disc size on disc	N 015093CH	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
CH	Block format error interleaving	N 014752CH	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
CN	EFM+ channel coding	N 014746CN4	200910117964	1995-Feb-01	101546567-A			2015-Feb-01	
CN	Disc size on disc	N 015093CN	95191258.5	1995-Oct-31	1138917-A	2002-Dec-25	95191258.5	2015-Oct-31	
CN	EFM+ channel coding	N 014746CN3	200910117965	1995-Feb-01	101547009A			2015-Feb-01	
CN	Block format error interleaving	N 014752CN3	200610095942	1995-Feb-14	101093701A			2015-Feb-14	
CN	DC control for EFM+	N 015452CN3	200610101665	1996-Aug-26	1909097A	2011-Mar-02	200610101665.7	2016-Aug-26	
CN	Block format error interleaving	N 014752CNA	02122058.1	1995-Feb-14	1389867-A	2008-Apr-09	02122058.1	2015-Feb-14	
CN	Block format error interleaving	N 014752CN	95190261.X	1995-Feb-14	1125994-A	2004-Jun-09	95190261.X	2015-Feb-14	
CN	DC control for EFM+	N 015452CNA	02160474.6	1996-Aug-26	1516175-A	2007-Aug-08	02160474.6	2016-Aug-26	
CN	DC control for EFM+	N 015452CN	96191244.8	1996-Aug-26	1166225-A	2004-Apr-14	96191244.8	2016-Aug-26	
CN	Block format error interleaving	N 014752CN4	200610093455	1995-Feb-14	101083105-A			2015-Feb-14	
CN	Mastering write strategy	N 014950CN	94120798.6	1994-Dec-23	1119323-A	2002-Jul-10	94120798.6	2014-Dec-23	
CN	EFM+ channel coding	N 014746CNA	200310102653	1995-Feb-01	1722283-A	2010-Apr-28	200310102653.2	2015-Feb-01	
CZ	EFM+ channel coding	N 014746CZ	96-PV2389	1995-Feb-01		2002-Aug-01	290751	2015-Feb-01	
CZ	Disc size on disc	N 015093CZ	96-PV2044	1995-Oct-31		2001-Jun-18	288682	2015-Oct-31	
DE	DC-free channel code	N 014789DE	95910709.5	1995-Mar-21	0702827-A1	2001-Sep-26	69522880.3	2015-Mar-21	
DE	Block format error interleaving	N 014752DE	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	69518126.2	2015-Feb-14	

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DE	EFM+ channel coding	N 014746DE	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	69505794.4	2015-Feb-01	
DE	Disc size on disc	N 015093DE	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	69516845.2	2015-Oct-31	
DE	DC control for EFM+	N 015452DE	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	69612955.8	2016-Aug-26	
DE	Mastering write strategy	N 014950DE	94203621.1	1994-Dec-14	0660314-A1	2000-Dec-27	69426482.2	2014-Dec-14	
DK	Block format error interleaving	N 014752DK	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
DK	EFM+ channel coding	N 014746DK	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
ES	DC control for EFM+	N 015452ES	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
ES	EFM+ channel coding	N 014746ES	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	2126877	2015-Feb-01	
ES	Disc size on disc	N 015093ES	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
ES	Block format error interleaving	N 014752ES	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	2150551	2015-Feb-14	
FI	EFM+ channel coding	N 014746FI3	20060170	1995-Feb-01		2010-Oct-15	121357	2015-Feb-01	
FI	EFM+ channel coding	N 014746FI	963151	1995-Feb-01		2006-Aug-31	117311	2015-Feb-01	
FI	EFM+ channel coding	N 014746FI2	20060169	1995-Feb-01		2010-Dec-31	121558	2015-Feb-01	
FR	Disc size on disc	N 015093FR	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
FR	DC control for EFM+	N 015452FR	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
FR	EFM+ channel coding	N 014746FR	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
FR	DC-free channel code	N 014789FR	95910709.5	1995-Mar-21	0702827-A1	2001-Sep-26	0702827	2015-Mar-21	
FR	Mastering write strategy	N 014950FR	94203621.1	1994-Dec-14	0660314-A1	2000-Dec-27	0660314	2014-Dec-14	
FR	Block format error interleaving	N 014752FR	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
GB	DC control for EFM+	N 015452GB	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
GB	EFM+ channel coding	N 014746GB	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
GB	Disc size on disc	N 015093GB	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
GB	DC-free channel code	N 014789GB	95910709.5	1995-Mar-21	0702827-A1	2001-Sep-26	0702827	2015-Mar-21	
GB	Mastering write strategy	N 014950GB	94203621.1	1994-Dec-14	0660314-A1	2000-Dec-27	0660314	2014-Dec-14	

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Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
GB	Block format error interleaving	N 014752GB	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
GR	DC control for EFM+	N 015452GR	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
GR	Block format error interleaving	N 014752GR	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
GR	Disc size on disc	N 015093GR	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
GR	EFM+ channel coding	N 014746GR	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
HK	Disc size on disc	N 015093HK	98114948.7	1995-Oct-31	1013722-A	2000-Nov-24	HK1013722	2015-Oct-31	
HK	DC control for EFM+	N 015452HK	98103966.7	1996-Aug-26	1004699-A	2004-Dec-17	HK1004699	2016-Aug-26	
HK	EFM+ channel coding	N 014746HK	98114079.8	1995-Feb-01	1012767-B1	2000-Mar-31	HK1012767	2015-Feb-01	
HK	Block format error interleaving	N 014752HK	98114633.7	1995-Feb-14	1013358-A	2001-Mar-02	HK1013358	2015-Feb-14	
HK	DC-free channel code	N 014789HK	98114634.6	1995-Mar-21	1013359-A	2002-Apr-12	HK1013359	2015-Mar-21	
HU	Disc size on disc	N 015093HU	P9601955	1995-Oct-31		2002-Jun-12	221214	2015-Oct-31	
HU	DC control for EFM+	N 015452HU	P9801354	1996-Aug-26		2002-Jul-23	221391	2016-Aug-26	
HU	EFM+ channel coding	N 014746HU	P9602247	1995-Feb-01		2002-May-16	221085	2015-Feb-01	
ID	Block format error interleaving	N 014752IDA	P00200400402	1995-Feb-16	042897-A	2006-Nov-28	ID0018422	2015-Feb-16	
ID	EFM+ channel coding	N 014746ID	P-950245	1995-Feb-15		2000-Jul-20	ID0005313	2015-Feb-15	
ID	DC control for EFM+	N 015452ID	P-962496	1996-Sep-02	016.164A	2000-Aug-16	ID0005386	2016-Sep-02	
ID	Block format error interleaving	N 014752ID	P-950251	1995-Feb-16		2004-Aug-19	ID0010921	2015-Feb-16	
IE	Block format error interleaving	N 014752IE	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
IE	DC control for EFM+	N 015452IE	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
IE	EFM+ channel coding	N 014746IE	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
IL	DC control for EFM+	N 015452IL	120740	1996-Aug-26		2000-Oct-27	120740	2016-Aug-26	
IN	DC control for EFM+	N 015452INA	80/KOL/2003	1996-Aug-28				2016-Aug-28	
IN	Block format error interleaving	N 014752INA	505/MAS/99	1995-Feb-14		2005-Dec-12	193791	2015-Feb-14	
IN	EFM+ channel coding	N 014746INC	312/MAS/99	1995-Feb-13		2008-Mar-31	218255	2015-Feb-13	

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Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
IN	DC control for EFM+	N 015452IN	1530/CAL/96	1996-Aug-28		2004-May-28	191592	2016-Aug-28	
IT	Disc size on disc	N 015093IT	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
IT	EFM+ channel coding	N 014746IT	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
IT	Block format error interleaving	N 014752IT	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
IT	DC-free channel code	N 014789IT	95910709.5	1995-Mar-21	0702827-A1	2001-Sep-26	0702827	2015-Mar-21	
IT	DC control for EFM+	N 015452IT	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
JP	Block format error interleaving	N 014752JPA	04-348053	1995-Feb-14	05-129222	2007-Sep-21	4014595	2015-Feb-14	
JP	Mastering write strategy	N 014950JP	94-336413	1994-Dec-22	95-320308	2005-Jul-29	3703515	2014-Dec-22	
JP	Mastering write strategy	N 014950JP2	05-152186	1994-Dec-22	05-327457			2014-Dec-22	
JP	DC control for EFM+	N 015452JP2	05-276620	1996-Aug-26	06-087127	2007-Apr-20	3946230	2016-Aug-26	
JP	DC-free channel code	N 014789JP	95-525542	1995-Mar-21	96-511405	2003-Aug-29	3467276	2015-Mar-21	
JP	EFM+ channel coding	N 014746JP	95-521693	1995-Feb-01	97-512392	2003-Mar-14	3408256	2015-Feb-01	
JP	EFM+ channel coding	N 014746JP3	05-203695	1995-Feb-01	06-024356	2006-Dec-15	3892020	2015-Feb-01	
JP	DC control for EFM+	N 015452JP	97-511019	1996-Aug-26	98-508456	2005-Dec-22	3754080	2016-Aug-26	
KR	Disc size on disc	N 015093KR	96-703818	1995-Oct-31	97-0700906	2003-Dec-01	410711	2015-Oct-31	
KR	DC control for EFM+	N 015452KR	97-702860	1996-Aug-26	10-1997-0707543	2005-May-02	0488634	2016-Aug-26	
KR	EFM+ channel coding	N 014746KR	96-704550	1995-Feb-01	10-1997-0701388	2005-Mar-08	0477168	2015-Feb-01	
KR	DC-free channel code	N 014789KR	95-705575	1995-Mar-21	10-1996-0702930	2005-Nov-14	10-0529807	2015-Mar-21	
KR	EFM+ channel coding	N 014746KRA	10-2003-7004	2003-Apr-07	10-2004-0004394	2005-Jan-11	0467125	2015-Feb-01	
KR	Mastering write strategy	N 014950KR	1994-0037014	1994-Dec-24	95-0020435	2003-Aug-29	0397686	2014-Dec-24	
KR	Block format error interleaving	N 014752KR	95-704556	1995-Feb-14	96-0702152	2002-Nov-28	0364332	2015-Feb-14	
LU	EFM+ channel coding	N 014746LU	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
LU	Block format error interleaving	N 014752LU	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	

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Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
MC	Block format error interleaving	N 014752MC	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
MC	EFM+ channel coding	N 014746MC	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
MX	DC control for EFM+	N 015452MX	973161	1996-Aug-26		2003-Oct-06	216755	2016-Aug-26	
MX	EFM+ channel coding	N 014746MX	9603394	1995-Feb-01		1998-Jul-28	189493	2015-Feb-01	
MY	EFM+ channel coding	N 014746MY	PI9500357	1995-Feb-14		2001-Apr-30	112136	2016-Apr-30	
MY	Block format error interleaving	N 014752MY	PI9500378	1995-Feb-15		2004-Jun-30	117269	2019-Jun-30	
MY	DC control for EFM+	N 015452MY	PI9603603	1996-Aug-29		2003-Sep-30	MY-115841-A	2018-Sep-30	
NL	Block format error interleaving	N 014752NL	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
NL	Mastering write strategy	N 014950NL	94203621.1	1994-Dec-14	0660314-A1	2000-Dec-27	0660314	2014-Dec-14	
NL	EFM+ channel coding	N 014746NL	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
NL	DC control for EFM+	N 015452NL	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
NL	Disc size on disc	N 015093NL	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
NO	EFM+ channel coding	N 014746NO	19963388	1995-Feb-01		2006-Dec-18	322948	2015-Feb-01	
NO	EFM+ channel coding	N 014746NOA	20043831	1995-Feb-01				2015-Feb-01	
NO	EFM+ channel coding	N 014746NOB	20043830	1995-Feb-01				2015-Feb-01	
NZ	EFM+ channel coding	N 014746NZ	278137	1995-Feb-01		1997-Jun-23	278137	2015-Feb-01	
PL	Disc size on disc	N 015093PLA	P337170	1995-Oct-31		2000-Jul-03	180307	2015-Oct-31	
PL	EFM+ channel coding	N 014746PL2	P378756	1995-Feb-01				2015-Feb-01	
PL	DC control for EFM+	N 015452PL	P320006	1996-Aug-26		2002-Oct-18	183099	2016-Aug-26	
PL	EFM+ channel coding	N 014746PL	P319407	1995-Feb-01		2002-Mar-04	192729	2015-Feb-01	
PT	Disc size on disc	N 015093PT	95934262.7	1995-Oct-31	0740831-A1	2000-May-10	0740831	2015-Oct-31	
PT	EFM+ channel coding	N 014746PT	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
PT	DC control for EFM+	N 015452PT	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
PT	Block format error interleaving	N 014752PT	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
RO	EFM+ channel coding	N 014746RO	96-001653	1995-Feb-01		2004-Mar-30	119099	2015-Feb-01	
RO	Disc size on disc	N 015093RO	96-01469	1995-Oct-31		1998-Mar-31	113191	2015-Oct-31	

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Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
RO	EFM+ channel coding	N 014746ROA	01-00059	1995-Feb-01		2004-Apr-30	119260	2015-Feb-01	
RU	EFM+ channel coding	N 014746RU	96118250	1995-Feb-01	33	2000-Jul-27	2153707	2015-Feb-01	
RU	DC control for EFM+	N 015452RU	97108582	1996-Aug-26	15	2000-Jul-20	2153200	2016-Aug-26	
RU	Disc size on disc	N 015093RU	96116857	1995-Oct-31	96116857	2002-Jul-27	2186427	2015-Oct-31	
SE	Block format error interleaving	N 014752SE	95907127.5	1995-Feb-14	0698270-A1	2000-Jul-26	0698270	2015-Feb-14	
SE	DC control for EFM+	N 015452SE	96926545.3	1996-Aug-26	0789910-A1	2001-May-23	0789910	2016-Aug-26	
SE	EFM+ channel coding	N 014746SE	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	0745254	2015-Feb-01	
SG	Disc size on disc	N 015093SG	9703040.7	1995-Oct-31		1999-Feb-22	42670	2015-Oct-31	
SG	DC control for EFM+	N 015452SG	9703300.5	1996-Aug-26		2002-Feb-15	44185	2016-Aug-26	
SG	Block format error interleaving	N 014752SG	9607077.6	1995-Feb-14	0050623-A	2001-Dec-24	50623	2015-Feb-14	
SI	EFM+ channel coding	N 014746SI	95905746.4	1995-Feb-01	0745254-A1	1998-Nov-04	9530188	2015-Feb-01	
SK	Disc size on disc	N 015093SK	96-PP920	1995-Oct-31		2002-Aug-12	282592	2015-Oct-31	
SK	EFM+ channel coding	N 014746SK	96-PP1051	1995-Feb-01	96-PP1051	2003-Nov-19	283798	2015-Feb-01	
TR	EFM+ channel coding	N 014746TR	95-0136	1995-Feb-15		2002-Oct-22	29626	2015-Feb-15	
TR	Disc size on disc	N 015093TR	95-1446	1995-Nov-17		1997-Dec-22	TR199501446B	2015-Nov-17	
TR	Block format error interleaving	N 014752TR	95-0143	1995-Feb-16		1999-May-03	29401	2015-Feb-16	
TW	EFM+ channel coding	N 014746TW	84101360	1995-Feb-15		1997-Apr-15	82864	2015-Feb-14	
TW	Block format error interleaving	N 014752TW	84101856	1995-Feb-28		1995-Dec-20	73076	2015-Feb-27	
TW	DC-free channel code	N 014789TW	84101322	1995-Feb-14		1996-Apr-11	75391	2015-Feb-13	
TW	DC control for EFM+	N 015452TW	85112032	1996-Oct-02		2000-Oct-19	116382	2016-Oct-01	
TW	Disc size on disc	N 015093TW	84113944	1995-Dec-27		2005-Sep-01	I239004	2015-Dec-26	
TW	Mastering write strategy	N 014950TW	84100644	1995-Jan-25		1997-Oct-02	87086	2015-Jan-24	
UA	Disc size on disc	N 015093UA	96072883	1995-Oct-31		2001-Oct-15	42015	2015-Oct-31	
UA	EFM+ channel coding	N 014746UA	96083269	1995-Feb-01		2001-Nov-15	42757	2015-Feb-01	
US	DC-free channel code	N 014789US	08/388865	1995-Feb-15		1997-Jun-24	5642113	2015-Feb-15	

Essential Philips Patents relevant to DVD-ROM Discs with Single Information Layer(s)

Country	Title	Reference	Application number	Filing date	Publication number	Grant date	Grant number	Expiry date	Non-assert
US	Block format error interleaving	N 014752US	08/389369	1995-Feb-16		1998-Nov-17	5838696	2015-Feb-16	
US	DC control for EFM+	N 015452US	08/706048	1996-Aug-30		1998-Aug-04	5790056	2016-Aug-30	
US	EFM+ channel coding	N 014746USA	08/900275	1995-Feb-08		1999-Jul-06	5920272	2015-Feb-08	
US	EFM+ channel coding	N 014746USK	90/006637	2003-May-09		2009-Oct-13	5696505	2015-Feb-08	
US	Mastering write strategy	N 014950USA	08/755614	1996-Nov-25		1998-Aug-04	5790512	2014-Dec-22	
US	Disc size on disc	N 015093USC	10/134912	2002-Apr-29	2002-0118632-A1	2003-Feb-25	6526005	2015-Nov-16	
US	Disc size on disc	N 015093US	08/558517	1995-Nov-16		2002-May-14	6388962	2015-Nov-16	
VE	DC control for EFM+	N 015452VE	96-1517	1996-Aug-30		2002-Oct-07	57944	2016-Aug-30	
VE	Disc size on disc	N 015093VE	95-2032	1995-Nov-17		2002-Oct-04	57442	2015-Nov-17	
VN	DC control for EFM+	N 015452VN	S19970327	1997-Apr-25		2000-Nov-27	1598	2017-Apr-25	
VN	EFM+ channel coding	N 014746VN	S19960099	1996-Aug-13		2000-Oct-25	1407	2016-Aug-13	
ZA	Disc size on disc	N 015093ZA	959489	1995-Nov-08		1997-Jul-30	95-9489	2015-Nov-08	
ZA	Block format error interleaving	N 014752ZA	951194	1995-Feb-14		1996-Oct-30	95-1194	2015-Feb-14	
ZA	EFM+ channel coding	N 014746ZA	95-1115	1995-Feb-10		1996-Oct-30	95-1115	2015-Feb-10	
ZA	DC control for EFM+	N 015452ZA	967261	1996-Aug-27		1998-May-27	96/7261	2016-Aug-27	