

## Annex A1 to the DVD Video Player and DVD ROM Player Patent License Agreement

### Essential Philips Patents relevant to DVD-ROM Players

<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	N 014746	- 331023	15-Feb-95		27-Jul-00	254412	27-Jul-15	EFM+ channel coding
AR	N 014752	- 331070	17-Feb-95		21-Nov-01	255358	21-Nov-16	Block format error interleaving
AR	N 015093	- 334224	14-Nov-95		31-Oct-01	AR000131	14-Nov-15	Disc size on disc
AT	N 014351	- 93203684.1	24-Dec-93	0605924-A3	23-Jun-99	E181614	24-Dec-13	Interlayer crosstalk for Multilayer
AT	N 014746	- 95905746.4	01-Feb-95	0745254-A1	04-Nov-98	E173110	01-Feb-15	EFM+ channel coding
AT	N 014752	- 95907127.5	14-Feb-95	0698270-A1	26-Jul-00	E195033	14-Feb-15	Block format error interleaving
AT	N 014986	- 95927046.3	16-Aug-95	0729629-A1	05-Nov-03	E253767	16-Aug-15	Multilayer with spherical aberration control
AT	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	E192878	31-Oct-15	Disc size on disc
AT	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	E201527	26-Aug-16	DC control for EFM+
AT	N 015471	- 95938001.5	06-Dec-95	0745255-A1	23-Oct-02	E226750	06-Dec-15	Layer number info on disc
AU	N 014746	- 95-14240	01-Feb-95	95-14240 692822	05-Nov-98	692822	01-Feb-15	EFM+ channel coding
AU	N 014752	- 95-15449	14-Feb-95	95-15449 689203	09-Jul-98	689203	14-Feb-15	Block format error interleaving
AU	N 015093	- 95-36720	31-Oct-95	698869	25-Feb-99	698869	31-Oct-15	Disc size on disc
AU	N 015452	- 96-66667	26-Aug-96	70391	15-Jul-99	703791	26-Aug-16	DC control for EFM+
BE	N 014746	- 95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
BE	N 014752	- 95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
BE	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
BE	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
BG	N 014746	- 100774	01-Feb-95		21-Jul-99	62106	01-Feb-15	EFM+ channel coding
BG	N 015093	- 100723	31-Oct-95		30-Jul-99	62105	31-Oct-15	Disc size on disc
BR	N 014746	- PI9506787.6	01-Feb-95	PI9506787.6	07-Aug-01	PI9506787.6	01-Feb-15	EFM+ channel coding
BR	N 014746	A PI9510740.1	01-Feb-95	PI9510740.1	10-Mar-09	PI9510740-1	01-Feb-15	EFM+ channel coding
BR	N 014746	B PI9510741.0	01-Feb-95		27-Apr-04	PI9510741.0	01-Feb-15	EFM+ channel coding
BR	N 015093	- PI9506626.8	31-Oct-95	PI9506626.8	17-Feb-04	PI9506626.8	31-Oct-15	Disc size on disc
BW	N 014746	- 98-00054	22-Apr-98		01-Dec-99	BW/P/99/00014	22-Apr-18	EFM+ channel coding

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BW	N 014752 -	98-00046	21-Apr-98		01-Dec-99	BW/P99/00023	21-Apr-18	Block format error interleaving
BW	N 015452 -	98-00063	22-Apr-98		01-Dec-99	BW/P99/00022	22-Apr-18	DC control for EFM+
CA	N 014746 -	2183355	01-Feb-95		30-May-06	2183355	01-Feb-15	EFM+ channel coding
CA	N 014746 A	2456968	01-Feb-95		25-Jan-05	2456968	01-Feb-15	EFM+ channel coding
CA	N 014752 -	2160572	14-Feb-95		16-Dec-03	2160572	14-Feb-15	Block format error interleaving
CA	N 015452 -	2205565	26-Aug-96		09-Jan-07	2205565	26-Aug-16	DC control for EFM+
CH	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
CH	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
CH	N 015093 -	95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
CN	N 014351 -	93121735.0	31-Dec-93	1090668-A	14-Jan-04	93121735.0	31-Dec-13	Interlayer crosstalk for Multilayer
CN	N 014746 A	200310102653.2	01-Feb-95	1722283-A	28-Apr-10	200310102653.2	01-Feb-15	EFM+ channel coding
CN	N 014746 B	200910117965.8	01-Feb-95	101547009A			01-Feb-15	EFM+ channel coding
CN	N 014746 C	200910117964.3	01-Feb-95	101546567-A			01-Feb-15	EFM+ channel coding
CN	N 014746 D	200910126177.5	01-Feb-95	101577133-A			01-Feb-15	EFM+ channel coding
CN	N 014752 -	95190261.X	14-Feb-95	1125994-A	09-Jun-04	95190261.X	14-Feb-15	Block format error interleaving
CN	N 014752 A	02122058.1	14-Feb-95	1389867-A	09-Apr-08	02122058.1	14-Feb-15	Block format error interleaving
CN	N 014752 B	200610095942.8	14-Feb-95	101093701A			14-Feb-15	Block format error interleaving
CN	N 014752 C	200610093455.8	14-Feb-95	101083105-A			14-Feb-15	Block format error interleaving
CN	N 014986 -	95190979.7	16-Aug-95	1136357-A	17-Apr-02	95190979.7	16-Aug-15	Multilayer with spherical aberration control
CN	N 015093 -	95191258.5	31-Oct-95	1138917-A	25-Dec-02	95191258.5	31-Oct-15	Disc size on disc
CN	N 015452 -	96191244.8	26-Aug-96	1166225-A	14-Apr-04	96191244.8	26-Aug-16	DC control for EFM+
CN	N 015452 A	02160474.6	26-Aug-96	1516175-A	08-Aug-07	02160474.6	26-Aug-16	DC control for EFM+
CN	N 015452 B	200610101665.7	26-Aug-96	1909097A			26-Aug-16	DC control for EFM+
CN	N 015471 -	95192103.7	06-Dec-95	1144011-A	24-Dec-03	95192103.7	06-Dec-15	Layer number info on disc
CZ	N 014746 -	96-PV2389	01-Feb-95		01-Aug-02	290751	01-Feb-15	EFM+ channel coding
CZ	N 014986 -	96-PV1174	16-Aug-95		14-Dec-01	289539	16-Aug-15	Multilayer with spherical aberration control
CZ	N 015093 -	96-PV2044	31-Oct-95		18-Jun-01	288682	31-Oct-15	Disc size on disc

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DE	N 013547 -	91203264.6	12-Dec-91	0496132-A3	19-Mar-97	69125264.5	12-Dec-11	System for Multilayer optical disc
DE	N 013547 A	96202520.1	12-Dec-91	0756273-A1	22-May-02	69133021.2	12-Dec-11	System for Multilayer optical disc
DE	N 013547 B	01204396.4	12-Dec-91	1187116-A1	08-Dec-04	69133432.3	12-Dec-11	System for Multilayer optical disc
DE	N 013547 C	04105807.4	12-Dec-91		09-May-07	69133570.2	12-Dec-11	System for Multilayer optical disc
DE	N 014351 -	93203684.1	24-Dec-93	0605924-A3	23-Jun-99	69325437.8	24-Dec-13	Interlayer crosstalk for Multilayer
DE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	69505794.4	01-Feb-15	EFM+ channel coding
DE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	69518126.2	14-Feb-15	Block format error interleaving
DE	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	69522880.3	21-Mar-15	DC-free channel code
DE	N 014986 -	95927046.3	16-Aug-95	0729629-A1	05-Nov-03	69532072.6	16-Aug-15	Multilayer with spherical aberration control
DE	N 015093 -	95934262.7	31-Oct-95	0740831-A1	10-May-00	69516845.2	31-Oct-15	Disc size on disc
DE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	69612955.8	26-Aug-16	DC control for EFM+
DE	N 015471 -	95938001.5	06-Dec-95	0745255-A1	23-Oct-02	69528636.6	06-Dec-15	Layer number info on disc
DK	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
DK	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
EP	N 013547 C	04105807.4	12-Dec-91	1515320-A1	09-May-07	1515320	12-Dec-11	System for Multilayer optical disc
ES	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	2126877	01-Feb-15	EFM+ channel coding
ES	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	2150551	14-Feb-15	Block format error interleaving
ES	N 015093 -	95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
ES	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
FI	N 014746 -	963151	01-Feb-95		31-Aug-06	117311	01-Feb-15	EFM+ channel coding
FI	N 014746 A	20060169	01-Feb-95		31-Dec-10	121558	01-Feb-15	EFM+ channel coding
FI	N 014746 B	20060170	01-Feb-95		15-Oct-10	121357	01-Feb-15	EFM+ channel coding
FR	N 013547 -	91203264.6	12-Dec-91	0496132-A3	19-Mar-97	0496132	12-Dec-11	System for Multilayer optical disc
FR	N 013547 A	96202520.1	12-Dec-91	0756273-A1	22-May-02	0756273	12-Dec-11	System for Multilayer optical disc
FR	N 013547 B	01204396.4	12-Dec-91	1187116-A1	08-Dec-04	1187116	12-Dec-11	System for Multilayer optical disc
FR	N 013547 C	04105807.4	12-Dec-91		09-May-07	1515320	12-Dec-11	System for Multilayer optical disc
FR	N 014351 -	93203684.1	24-Dec-93	0605924-A3	23-Jun-99	0605924	24-Dec-13	Interlayer crosstalk for Multilayer

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FR	N 014746	- 95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
FR	N 014752	- 95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
FR	N 014789	- 95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
FR	N 014986	- 95927046.3	16-Aug-95	0729629-A1	05-Nov-03	0729629	16-Aug-15	Multilayer with spherical aberration control
FR	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
FR	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
FR	N 015471	- 95938001.5	06-Dec-95	0745255-A1	23-Oct-02	0745255	06-Dec-15	Layer number info on disc
GB	N 013547	- 91203264.6	12-Dec-91	0496132-A3	19-Mar-97	0496132	12-Dec-11	System for Multilayer optical disc
GB	N 013547	A 96202520.1	12-Dec-91	0756273-A1	22-May-02	0756273	12-Dec-11	System for Multilayer optical disc
GB	N 013547	B 01204396.4	12-Dec-91	1187116-A1	08-Dec-04	1187116	12-Dec-11	System for Multilayer optical disc
GB	N 013547	C 04105807.4	12-Dec-91		09-May-07	1515320	12-Dec-11	System for Multilayer optical disc
GB	N 014351	- 93203684.1	24-Dec-93	0605924-A3	23-Jun-99	0605924	24-Dec-13	Interlayer crosstalk for Multilayer
GB	N 014746	- 95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
GB	N 014752	- 95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
GB	N 014789	- 95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
GB	N 014986	- 95927046.3	16-Aug-95	0729629-A1	05-Nov-03	0729629	16-Aug-15	Multilayer with spherical aberration control
GB	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
GB	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
GB	N 015471	- 95938001.5	06-Dec-95	0745255-A1	23-Oct-02	0745255	06-Dec-15	Layer number info on disc
GR	N 014746	- 95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
GR	N 014752	- 95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
GR	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
GR	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
HK	N 014351	- 98114078.9	24-Dec-93	1012766-A 1012766-A	19-Jan-01	HK1012766	23-Dec-13	Interlayer crosstalk for Multilayer
HK	N 014746	- 98114079.8	01-Feb-95	1012767-B1 1012767-B	31-Mar-00	HK1012767	31-Jan-15	EFM+ channel coding
HK	N 014752	- 98114633.7	14-Feb-95	1013358-A 1013358-B	02-Mar-01	HK1013358	13-Feb-15	Block format error interleaving
HK	N 014789	- 98114634.6	21-Mar-95	1013359-A 1013359-B	12-Apr-02	HK1013359	20-Mar-15	DC-free channel code

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HK	N 014986 -	98114664.9	16-Aug-95	1013366-A 1013366-A	09-Jul-04	HK1013366	15-Aug-15	Multilayer with spherical aberration control
HK	N 015093 -	98114948.7	31-Oct-95	1013722-A 1013722-A	24-Nov-00	HK1013722	30-Oct-15	Disc size on disc
HK	N 015452 -	98103966.7	26-Aug-96	1004699-A 1004699-A	17-Dec-04	HK1004699	26-Aug-16	DC control for EFM+
HU	N 014746 -	P9602247	01-Feb-95		16-May-02	221085	01-Feb-15	EFM+ channel coding
HU	N 015093 -	P9601955	31-Oct-95		12-Jun-02	221214	31-Oct-15	Disc size on disc
HU	N 015452 -	P9801354	26-Aug-96		23-Jul-02	221391	26-Aug-16	DC control for EFM+
ID	N 014746 -	P-950245	15-Feb-95		20-Jul-00	ID0005313	15-Feb-15	EFM+ channel coding
ID	N 014752 -	P-950251	16-Feb-95		19-Aug-04	ID0010921	16-Feb-15	Block format error interleaving
ID	N 014752 A	P00200400402	16-Feb-95	042897-A	28-Nov-06	ID0018422	16-Feb-15	Block format error interleaving
ID	N 015452 -	P-962496	02-Sep-96	016.164A	16-Aug-00	ID0005386	02-Sep-16	DC control for EFM+
IE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
IE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
IE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
IL	N 015452 -	120740	26-Aug-96		27-Oct-00	120740	26-Aug-16	DC control for EFM+
IN	N 014746 A	1577/Cal/98	13-Feb-95		27-Jul-01	185349	13-Feb-15	EFM+ channel coding
IN	N 014746 B	1578/Cal/98	13-Feb-95		20-Apr-01	184753	13-Feb-15	EFM+ channel coding
IN	N 014746 C	312/MAS/99	13-Feb-95		31-Mar-08	218255	13-Feb-15	EFM+ channel coding
IN	N 014746 D	877/CHENP/2004	13-Feb-95		23-Jun-08	221406	13-Feb-15	EFM+ channel coding
IN	N 014746 E	878/CHE/2004	13-Feb-95		23-Jun-08	221405	13-Feb-15	EFM+ channel coding
IN	N 014752 A	505/MAS/99	14-Feb-95		12-Dec-05	193791	14-Feb-15	Block format error interleaving
IN	N 015452 -	1530/Cal/96	28-Aug-96		28-May-04	191592	28-Aug-16	DC control for EFM+
IN	N 015452 A	80/Kol/2003	28-Aug-96				28-Aug-16	DC control for EFM+
IT	N 014351 -	93203684.1	24-Dec-93	0605924-A3	23-Jun-99	0605924	24-Dec-13	Interlayer crosstalk for Multilayer
IT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
IT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
IT	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
IT	N 014986 -	95927046.3	16-Aug-95	0729629-A1	05-Nov-03	0729629	16-Aug-15	Multilayer with spherical aberration control

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IT	N 015093	- 95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
IT	N 015452	- 96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
JP	N 013547	- 91-339181	21-Dec-91	92-301226	14-Sep-00	3110532	21-Dec-11	System for Multilayer optical disc
JP	N 013547	A 99-321703	21-Dec-91	00-137927	16-Nov-07	4040223	21-Dec-11	System for Multilayer optical disc
JP	N 013547	B 07-239438	21-Dec-91		31-Oct-08	4209452	21-Dec-11	System for Multilayer optical disc
JP	N 013547	C 08-234049	21-Dec-91	2008-293659	26-Feb-10	4461243	21-Dec-11	System for Multilayer optical disc
JP	N 014351	- 93-350276	28-Dec-93	94-267110			28-Dec-13	Interlayer crosstalk for Multilayer
JP	N 014746	- 95-521693	01-Feb-95	97-512392	14-Mar-03	3408256	01-Feb-15	EFM+ channel coding
JP	N 014746	B 05-203695	01-Feb-95	06-024356	15-Dec-06	3892020	01-Feb-15	EFM+ channel coding
JP	N 014752	- 95-521698	14-Feb-95	96-509316	24-Jun-05	3691062	14-Feb-15	Block format error interleaving
JP	N 014752	A 04-348053	14-Feb-95	05-129222	21-Sep-07	4014595	14-Feb-15	Block format error interleaving
JP	N 014789	- 95-525542	21-Mar-95	96-511405	29-Aug-03	3467276	21-Mar-15	DC-free channel code
JP	N 014986	- 96-507906	16-Aug-95	02-515157			16-Aug-15	Multilayer with spherical aberration control
JP	N 014986	A 06-249657	16-Aug-95	07-018728			16-Aug-15	Multilayer with spherical aberration control
JP	N 015452	- 97-511019	26-Aug-96	98-508456	22-Dec-05	3754080	26-Aug-16	DC control for EFM+
JP	N 015452	A 05-276620	26-Aug-96	06-087127	20-Apr-07	3946230	26-Aug-16	DC control for EFM+
JP	N 015471	- 96-519640	06-Dec-95	97-509776			06-Dec-15	Layer number info on disc
JP	N 015471	A 06-202175	06-Dec-95	07-018694			06-Dec-15	Layer number info on disc
JP	N 015471	B 08-127432	06-Dec-95	08-287861			06-Dec-15	Layer number info on disc
JP	N 015471	C 09-269115	06-Dec-95				06-Dec-15	Layer number info on disc
KR	N 013547	- 91-23288	18-Dec-91		06-Dec-99	0246282	18-Dec-11	System for Multilayer optical disc
KR	N 013547	A 96-67178	18-Dec-91		31-Jan-00	254150	18-Dec-11	System for Multilayer optical disc
KR	N 014351	- 94-144	04-Jan-94		14-Feb-01	289018	04-Jan-14	Interlayer crosstalk for Multilayer
KR	N 014746	- 96-704550	01-Feb-95	10-1997-0701388	08-Mar-05	0477168	01-Feb-15	EFM+ channel coding
KR	N 014746	A 10-2003-7004922	07-Apr-03	10-2004-0004394	11-Jan-05	0467125	01-Feb-15	EFM+ channel coding
KR	N 014752	- 95-704556	14-Feb-95	96-0702152	28-Nov-02	0364332	14-Feb-15	Block format error interleaving
KR	N 014789	- 95-705575	21-Mar-95	10-1996-0702930	14-Nov-05	10-0529807	21-Mar-15	DC-free channel code

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KR	N 014986 -	96-702076	16-Aug-95	10-1996-0706161	19-May-04	0433600	16-Aug-15	Multilayer with spherical aberration control
KR	N 014986 A	10-2002-7016178	28-Nov-02		14-May-03	0385382	16-Aug-15	Multilayer with spherical aberration control
KR	N 014986 B	10-2002-7016179	28-Nov-02		14-May-03	0385381	16-Aug-15	Multilayer with spherical aberration control
KR	N 015093 -	96-703818	31-Oct-95	97-0700906	01-Dec-03	410711	31-Oct-15	Disc size on disc
KR	N 015452 -	97-702860	26-Aug-96	10-1997-0707543	02-May-05	0488634	26-Aug-16	DC control for EFM+
KR	N 015471 -	96-704517	06-Dec-95	97-0701413	24-Oct-03	404530	06-Dec-15	Layer number info on disc
LU	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
LU	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
MC	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
MC	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
MX	N 014746 -	9603394	01-Feb-95		28-Jul-98	189493	01-Feb-15	EFM+ channel coding
MX	N 015452 -	973161	26-Aug-96		06-Oct-03	216755	26-Aug-16	DC control for EFM+
MY	N 014746 -	PI9500357	14-Feb-95		30-Apr-01	112136	30-Apr-16	EFM+ channel coding
MY	N 014752 -	PI9500378	15-Feb-95		30-Jun-04	117269	30-Jun-19	Block format error interleaving
MY	N 014986 -	PI95002480	22-Aug-95		30-Jun-06	124229	30-Jun-21	Multilayer with spherical aberration control
MY	N 014986 A	PI20014950	22-Aug-95		29-Jun-07	MY-130309-A	29-Jun-22	Multilayer with spherical aberration control
MY	N 014986 B	PI20014949	22-Aug-95				22-Aug-15	Multilayer with spherical aberration control
MY	N 015452 -	PI9603603	29-Aug-96		30-Sep-03	MY-115841-A	30-Sep-18	DC control for EFM+
NL	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
NL	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
NL	N 015093 -	95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
NL	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
NO	N 014746 -	19963388	01-Feb-95		18-Dec-06	322948	01-Feb-15	EFM+ channel coding
NO	N 014746 A	20043831	01-Feb-95				01-Feb-15	EFM+ channel coding
NO	N 014746 B	20043830	01-Feb-95				01-Feb-15	EFM+ channel coding
NZ	N 014746 -	278137	01-Feb-95	278137	23-Jun-97	278137	01-Feb-15	EFM+ channel coding
PL	N 014746 -	P319407	01-Feb-95		04-Mar-02	192729	01-Feb-15	EFM+ channel coding

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PL	N 014746 A	P378756	01-Feb-95				01-Feb-15	EFM+ channel coding
PL	N 014986 -	P314789	16-Aug-95	P314789	18-Aug-00	180658	16-Aug-15	Multilayer with spherical aberration control
PL	N 014986 A	P336669	16-Aug-95		16-Jul-00	180648	16-Aug-15	Multilayer with spherical aberration control
PL	N 014986 B	P336670	16-Aug-95		14-Aug-00	180647	16-Aug-15	Multilayer with spherical aberration control
PL	N 015093 -	P315584	31-Oct-95		29-Jun-00	180182	31-Oct-15	Disc size on disc
PL	N 015452 -	P320006	26-Aug-96		18-Oct-02	183099	26-Aug-16	DC control for EFM+
PT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
PT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
PT	N 015093 -	95934262.7	31-Oct-95	0740831-A1	10-May-00	0740831	31-Oct-15	Disc size on disc
PT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
RO	N 014746 -	96-001653	01-Feb-95		30-Mar-04	119099	01-Feb-15	EFM+ channel coding
RO	N 014746 A	01-00059	01-Feb-95		30-Apr-04	119260	01-Feb-15	EFM+ channel coding
RO	N 015093 -	96-01469	31-Oct-95		31-Mar-98	113191	31-Oct-15	Disc size on disc
RU	N 014746 -	96118250	01-Feb-95	33	27-Jul-00	2153707	01-Feb-15	EFM+ channel coding
RU	N 015093 -	96116857	31-Oct-95	96116857	27-Jul-02	2186427	31-Oct-15	Disc size on disc
RU	N 015452 -	97108582	26-Aug-96	15	20-Jul-00	2153200	26-Aug-16	DC control for EFM+
SE	N 014351 -	93203684.1	24-Dec-93	0605924-A3	23-Jun-99	0605924	24-Dec-13	Interlayer crosstalk for Multilayer
SE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ channel coding
SE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format error interleaving
SE	N 014986 -	95927046.3	16-Aug-95	0729629-A1	05-Nov-03	0729629	16-Aug-15	Multilayer with spherical aberration control
SE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	DC control for EFM+
SG	N 014351 -	9607095.8	24-Dec-93	0048111	28-Dec-01	48111	24-Dec-13	Interlayer crosstalk for Multilayer
SG	N 014752 -	9607077.6	14-Feb-95	0050623-A	24-Dec-01	50623	14-Feb-15	Block format error interleaving
SG	N 014986 -	9700759.5	16-Aug-95		22-Jun-99	37758	16-Aug-15	Multilayer with spherical aberration control
SG	N 015093 -	9703040.7	31-Oct-95		22-Feb-99	42670	31-Oct-15	Disc size on disc
SG	N 015452 -	9703300.5	26-Aug-96		15-Feb-02	44185	26-Aug-16	DC control for EFM+
SI	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	9530188	01-Feb-15	EFM+ channel coding



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SK	N 014746	- 96-PP1051	01-Feb-95	96-PP1051	19-Nov-03	283798	01-Feb-15	EFM+ channel coding
SK	N 015093	- 96-PP920	31-Oct-95		12-Aug-02	282592	31-Oct-15	Disc size on disc
TR	N 014746	- 95-0136	15-Feb-95		22-Oct-02	29626	15-Feb-15	EFM+ channel coding
TR	N 014752	- 95-0143	16-Feb-95		03-May-99	29401	16-Feb-15	Block format error interleaving
TR	N 015093	- 95-1446	17-Nov-95		22-Dec-97	TR199501446B	17-Nov-15	Disc size on disc
TW	N 014351	- 83101489	22-Feb-94		31-Dec-94	67573	22-Feb-14	Interlayer crosstalk for Multilayer
TW	N 014746	- 84101360	15-Feb-95	294862	15-Apr-97	82864	15-Feb-15	EFM+ channel coding
TW	N 014752	- 84101856	28-Feb-95	256904	20-Dec-95	73076	28-Feb-15	Block format error interleaving
TW	N 014789	- 84101322	14-Feb-95	267279	11-Apr-96	75391	14-Feb-15	DC-free channel code
TW	N 014986	- 84110771	13-Oct-95	292389	13-Mar-97	852158	13-Oct-15	Multilayer with spherical aberration control
TW	N 015093	- 84113944	27-Dec-95		01-Sep-05	I239004	27-Dec-15	Disc size on disc
TW	N 015452	- 85112032	02-Oct-96	394931	19-Oct-00	116382	02-Oct-16	DC control for EFM+
TW	N 015471	U 088216250	27-Feb-96	525822	14-Jul-03	UM-201070	27-Feb-08	Layer number info on disc
UA	N 014746	- 96083269	01-Feb-95		15-Nov-01	42757	01-Feb-15	EFM+ channel coding
UA	N 015093	- 96072883	31-Oct-95		15-Oct-01	42015	31-Oct-15	Disc size on disc
US	N 013547	V 08/299861	01-Sep-94		14-Oct-97	5677903	14-Oct-14	System for Multilayer optical disc
US	N 013547	Y 10/348121	21-Jan-03	2003-0133391-A1	06-Nov-07	7292515	25-Mar-11	System for Multilayer optical disc
US	N 014351	- 08/175331	29-Dec-93		23-Apr-96	5511057	29-Dec-13	Interlayer crosstalk for Multilayer
US	N 014351	W 08/791097	23-Jan-97		26-Jan-99	5864530	29-Dec-13	Interlayer crosstalk for Multilayer
US	N 014351	Y 09/442959	18-Nov-99				29-Dec-13	Interlayer crosstalk for Multilayer
US	N 014746	S 12/435714	08-Feb-95				08-Feb-15	EFM+ channel coding
US	N 014752	B 09/136650	19-Aug-98		04-Apr-00	6047397	16-Feb-15	Block format error interleaving
US	N 014789	- 08/388865	15-Feb-95		24-Jun-97	5642113	15-Feb-15	DC-free channel code
US	N 015452	- 08/706048	30-Aug-96		04-Aug-98	5790056	30-Aug-16	DC control for EFM+
US	N 015471	B 10/614411	07-Jul-03	2004-0095879-A1	24-Apr-07	7209431	18-Dec-15	Layer number info on disc
VE	N 015093	- 95-2032	17-Nov-95		04-Oct-02	57442	17-Nov-15	Disc size on disc
VE	N 015452	- 96-1517	30-Aug-96		07-Oct-02	57944	30-Aug-16	DC control for EFM+

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VN	N 014746 -	S19960099	13-Aug-96		25-Oct-00	1407	13-Aug-16	EFM+ channel coding
VN	N 014986 -	S19962028T1	23-Aug-94		25-Aug-99	947	23-Aug-14	Multilayer with spherical abberation control
VN	N 014986 A	S19962028T2	23-Aug-94		25-Aug-99	948	23-Aug-14	Multilayer with spherical abberation control
VN	N 015093 -	S19960035	15-Jul-96		30-Jun-00	1338	15-Jul-11	Disc size on disc
VN	N 015452 -	S19970327	25-Apr-97		27-Nov-00	1598	25-Apr-17	DC control for EFM+
ZA	N 014746 -	95-1115	10-Feb-95		30-Oct-96	95-1115	10-Feb-15	EFM+ channel coding
ZA	N 014752 -	951194	14-Feb-95		30-Oct-96	95-1194	14-Feb-15	Block format error interleaving
ZA	N 015093 -	959489	08-Nov-95		30-Jul-97	95-9489	08-Nov-15	Disc size on disc
ZA	N 015452 -	967261	27-Aug-96		27-May-98	96/7261	27-Aug-16	DC control for EFM+