

Exhibit E1 to the DVD+RW/+R Recorder Patent License Agreement

Essential Philips patents relevant to DVD+RW +R Recorder / DVD+RW Data part

<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 012925 -	316796	07-May-90		07-Aug-01	255185	07-Aug-16	Additional information in pregroove
AR	N 014746 -	331023	15-Feb-95		27-Jul-00	254412	27-Jul-15	EFM+ modulated system for high density
AR	N 014752 -	331070	17-Feb-95		21-Nov-01	255358	21-Nov-16	Block format with error coding interleave
AR	N 017323 -	P000100264	21-Jan-00		24-Apr-07	022328	21-Jan-20	Bi-phase modulation
AT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	E173110	01-Feb-15	EFM+ modulated system for high density
AT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	E195033	14-Feb-15	Block format with error coding interleave
AT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	E201527	26-Aug-16	EFM+ improved
AT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	E184416	24-Sep-16	Velocity related information
AT	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	E254329	11-Jan-20	Bi-phase modulation
AT	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	E85720	13-Apr-08	Premastered information on write strategy
AT-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
AU	N 012925 -	90-54718	07-May-90	640646	05-Jan-94	640646	07-May-10	Additional information in pregroove
AU	N 014746 -	95-14240	01-Feb-95	95-14240 692822	05-Nov-98	692822	01-Feb-15	EFM+ modulated system for high density
AU	N 014752 -	95-15449	14-Feb-95	95-15449 689203	09-Jul-98	689203	14-Feb-15	Block format with error coding interleave
AU	N 015452 -	96-66667	26-Aug-96	70391	15-Jul-99	703791	26-Aug-16	EFM+ improved
AU	N 017323 -	00-27966	11-Jan-00	766051	22-Jan-04	766051	11-Jan-20	Bi-phase modulation
AU	Q 088006 -	88-15037	21-Apr-88	629792	26-Feb-93	629792	21-Apr-08	Premastered information on write strategy
AZ	N 017323 -	200000982	11-Jan-00		27-Jun-02	002489	11-Jan-20	Bi-phase modulation
BE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
BE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
BE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
BE	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
BE-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
BG	N 014746 -	100774	01-Feb-95		21-Jul-99	62106	01-Feb-15	EFM+ modulated system for high density
BR	N 014746 -	PI9506787.6	01-Feb-95	PI9506787.6	07-Aug-01	PI9506787.6	01-Feb-15	EFM+ modulated system for high density

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BR	N 014746 A	PI9510740.1	01-Feb-95	PI9510740.1			01-Feb-15	EFM+ modulated system for high density
BR	N 014746 B	PI9510741.0	01-Feb-95		27-Apr-04	PI9510741.0	01-Feb-15	EFM+ modulated system for high density
BR	N 017323 -	PI0004371.0	11-Jan-00				11-Jan-20	Bi-phase modulation
BR	N 017399 -	PI9907760.4	06-Dec-99				06-Dec-19	Linking position
BR	Q 088006 -	PI8801854.7	19-Apr-88		29-Dec-98	PI8801854.7	19-Apr-08	Premastered information on write strategy
BW	N 014746 -	98-00054	22-Apr-98		01-Dec-99	BW/P/99/000122	22-Apr-18	EFM+ modulated system for high density
BW	N 014752 -	98-00046	21-Apr-98		01-Dec-99	BW/P99/000231	21-Apr-18	Block format with error coding interleave
BW	N 015452 -	98-00063	22-Apr-98		01-Dec-99	BW/P/99/000222	22-Apr-18	EFM+ improved
BY	N 017323 -	200000982	11-Jan-00		27-Jun-02	002489	11-Jan-20	Bi-phase modulation
CA	N 011915 -	549716	20-Oct-87		25-Feb-92	1296425	25-Feb-09	Distribution of write energy
CA	N 012398 -	588616	19-Jan-89		06-Jul-93	1319985	06-Jul-10	Synchronization of write signal and groove
CA	N 012925 -	2016055	04-May-90		02-Jan-01	2016055	04-May-10	Additional information in pregroove
CA	N 014746 -	2183355	01-Feb-95		30-May-06	2183355	01-Feb-15	EFM+ modulated system for high density
CA	N 014746 A	2456968	01-Feb-95		25-Jan-05	2456968	01-Feb-15	EFM+ modulated system for high density
CA	N 014752 -	2160572	14-Feb-95		16-Dec-03	2160572	14-Feb-15	Block format with error coding interleave
CA	N 015452 -	2205565	26-Aug-96		09-Jan-07	2205565	26-Aug-16	EFM+ improved
CA	N 015495 -	2206297	24-Sep-96				24-Sep-16	Velocity related information
CA	N 017323 -	2325450	11-Jan-00				11-Jan-20	Bi-phase modulation
CA	N 017399 -	2320125	06-Dec-99				06-Dec-19	Linking position
CA	Q 088006 -	564218	16-Dec-88		14-Jul-92	1305253	16-Dec-08	Premastered information on write strategy
CH	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
CH	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
CH	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
CH-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
CN	N 014746 -	95192574.1	01-Feb-95	1155349-A			01-Feb-15	EFM+ modulated system for high density
CN	N 014746 A	200310102653.2	01-Feb-95	1722283-A			01-Feb-15	EFM+ modulated system for high density
CN	N 014752 -	95190261.X	14-Feb-95	1125994-A	09-Jun-04	95190261.X	14-Feb-15	Block format with error coding interleave

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CN	N 014752 A	02122058.1	14-Feb-95	1389867-A			14-Feb-15	Block format with error coding interleave
CN	N 014752 B	200610095942.8	14-Feb-95				14-Feb-15	Block format with error coding interleave
CN	N 014752 C	200610093455.8	14-Feb-95				14-Feb-15	Block format with error coding interleave
CN	N 015452 -	96191244.8	26-Aug-96	1166225-A	14-Apr-04	96191244.8	26-Aug-16	EFM+ improved
CN	N 015452 A	02160474.6	26-Aug-96	1516175-A	08-Aug-07	1331148	26-Aug-16	EFM+ improved
CN	N 015452 B	200610101665.7	26-Aug-96	1909097A			26-Aug-16	EFM+ improved
CN	N 015495 -	96191532.3	24-Sep-96	1182497-A	12-May-04	96191532.3	24-Sep-16	Velocity related information
CN	N 015495 A	03145753.3	24-Sep-96	1475991-A			24-Sep-16	Velocity related information
CN	N 016078 -	97193136.4	20-Oct-97	1214147-A	29-Oct-03	97193136.4	20-Oct-17	Micro formatting
CN	N 016187 -	97193996.9	08-Dec-97	1216628-A	19-May-04	97193996.9	08-Dec-17	Recorder reading gamma value from disc
CN	N 016269 -	97193137.2	20-Oct-97	1214148-A	29-Oct-03	97193137.2	20-Oct-17	Incremental formatting
CN	N 017323 -	00800069.7	11-Jan-00	1293810-A	04-Jan-06	00800069.7	11-Jan-20	Bi-phase modulation
CN	N 017323 A	200410090570.0	11-Jan-00	1607596-A			11-Jan-20	Bi-phase modulation
CN	Q 088006 -	88102870.3	18-Apr-88	88102870-A	03-Jan-93	88102870.3	18-Apr-08	Premastered information on write strategy
CY	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
CZ	N 014746 -	96-PV2389	01-Feb-95		01-Aug-02	290751	01-Feb-15	EFM+ modulated system for high density
CZ	N 015495 -	97-PV1610	24-Sep-96		10-Oct-02	291074	24-Sep-16	Velocity related information
CZ	N 017323 -	00-PV3524	11-Jan-00				11-Jan-20	Bi-phase modulation
CZ	N 017323 A	PV2007-221	11-Jan-00				11-Jan-20	Bi-phase modulation
DE	N 013146 -	90203049.3	19-Nov-90	0429139-A1	11-Jun-97	69030913.9	19-Nov-10	Discontinuous R/W using buffer
DE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	69505794.4	01-Feb-15	EFM+ modulated system for high density
DE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	69518126.2	14-Feb-15	Block format with error coding interleave
DE	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	69522880.3	21-Mar-15	DC-free channel code
DE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	69612955.8	26-Aug-16	EFM+ improved
DE	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	69604189.8	24-Sep-16	Velocity related information
DE	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	69728859.5	20-Oct-17	Micro formatting
DE	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	69723440.1	08-Dec-17	Recorder reading gamma value from disc

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DE	N 016269 -	97943107.9	20-Oct-97	0882293-A1	21-Apr-04	69728755.6	20-Oct-17	Incremental formatting
DE	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	60006454.9	11-Jan-20	Bi-phase modulation
DE	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	3878293	13-Apr-08	Premastered information on write strategy
DE-EP	N 016269 A	03103414.3	20-Oct-97	1381052-A3			20-Oct-17	Incremental formatting
DE-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
DK	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
DK	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
DK	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
EE	N 017323 -	P200000558	11-Jan-00	P200000558	17-Apr-06	EE 04624	11-Jan-20	Bi-phase modulation
EP	N 017399 A	07116108.7	06-Dec-99				06-Dec-19	Linking position
ES	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	2126877	01-Feb-15	EFM+ modulated system for high density
ES	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	2150551	14-Feb-15	Block format with error coding interleave
ES	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
ES	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
ES	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
ES	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information on write strategy
ES-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
FI	N 014746 -	963151	01-Feb-95		31-Aug-06	117311	01-Feb-15	EFM+ modulated system for high density
FI	N 014746 A	20060169	01-Feb-95				01-Feb-15	EFM+ modulated system for high density
FI	N 014746 B	20060170	01-Feb-95				01-Feb-15	EFM+ modulated system for high density
FI	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
FI-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
FR	N 013146 -	90203049.3	19-Nov-90	0429139-A1	11-Jun-97	0429139	19-Nov-10	Discontinuous R/W using buffer
FR	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
FR	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
FR	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
FR	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved

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FR	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
FR	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	0880780	20-Oct-17	Micro formatting
FR	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	0904586	08-Dec-17	Recorder reading gamma value from disc
FR	N 016269 -	97943107.9	20-Oct-97	0882293-A1	21-Apr-04	0882293	20-Oct-17	Incremental formatting
FR	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
FR	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information on write strategy
FR-EP	N 016269 A	03103414.3	20-Oct-97	1381052-A3			20-Oct-17	Incremental formatting
FR-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
GB	N 013146 -	90203049.3	19-Nov-90	0429139-A1	11-Jun-97	0429139	19-Nov-10	Discontinuous R/W using buffer
GB	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
GB	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
GB	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
GB	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
GB	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
GB	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	0880780	20-Oct-17	Micro formatting
GB	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	0904586	08-Dec-17	Recorder reading gamma value from disc
GB	N 016269 -	97943107.9	20-Oct-97	0882293-A1	21-Apr-04	0882293	20-Oct-17	Incremental formatting
GB	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
GB	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information on write strategy
GB-EP	N 016269 A	03103414.3	20-Oct-97	1381052-A3			20-Oct-17	Incremental formatting
GB-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
GR	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
GR	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
GR	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
GR	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
GR	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
HK	N 014746 -	98114079.8	01-Feb-95	1012767-B1 1012767-B	31-Mar-00	HK1012767	31-Jan-15	EFM+ modulated system for high density

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HK	N 014752 -	98114633.7	14-Feb-95	1013358-A 1013358-B	02-Mar-01	HK1013358	13-Feb-15	Block format with error coding interleave
HK	N 014789 -	98114634.6	21-Mar-95	1013359-A 1013359-B	12-Apr-02	HK1013359	20-Mar-15	DC-free channel code
HK	N 015452 -	98103966.7	26-Aug-96	1004699-A 1004699-A	17-Dec-04	HK1004699	26-Aug-16	EFM+ improved
HK	N 015495 -	98114109.2	24-Sep-96	1012520-A 1012520-B	12-May-00	HK1012520	23-Sep-16	Velocity related information
HK	N 017323 -	01104623.6	11-Jan-00	UNKNOWN	09-Jul-04	HK1033994	10-Jan-20	Bi-phase modulation
HK	Q 088006 -	NOT GIVEN	13-Apr-88		25-Aug-94	0940877	13-Apr-08	Premastered information on write strategy
HU	N 012925 -	90-2679	04-May-90	90-2679	30-Aug-93	208192	04-May-10	Additional information in pregroove
HU	N 014746 -	P9602247	01-Feb-95		16-May-02	221085	01-Feb-15	EFM+ modulated system for high density
HU	N 015452 -	P9801354	26-Aug-96		23-Jul-02	221391	26-Aug-16	EFM+ improved
HU	N 016187 -	P9902497	08-Dec-97		07-Nov-05	224672	08-Dec-17	Recorder reading gamma value from disc
HU	N 017323 -	P0101610	11-Jan-00				11-Jan-20	Bi-phase modulation
ID	N 014746 -	P-950245	15-Feb-95		20-Jul-00	ID0005313	15-Feb-15	EFM+ modulated system for high density
ID	N 014752 -	P-950251	16-Feb-95		19-Aug-04	ID0010921	16-Feb-15	Block format with error coding interleave
ID	N 014752 A	P00200400402	16-Feb-95	042897-A	28-Nov-06	UNKNOWN	16-Feb-15	Block format with error coding interleave
ID	N 015452 -	P-962496	02-Sep-96	016.164A	16-Aug-00	ID0005386	02-Sep-16	EFM+ improved
ID	N 015495 -	P-962786	30-Sep-96	016343-A	10-Mar-04	UNKNOWN	30-Sep-10	Velocity related information
ID	N 017323 -	W-001908	11-Jan-00				11-Jan-20	Bi-phase modulation
IE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
IE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
IE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
IE	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
IL	N 015452 -	120740	26-Aug-96		27-Oct-00	120740	26-Aug-16	EFM+ improved
IL	N 017323 -	138644	11-Jan-00		06-May-06	138644	11-Jan-20	Bi-phase modulation
IN	N 014746 A	1577/Cal/98	13-Feb-95		27-Jul-01	185349	13-Feb-15	EFM+ modulated system for high density
IN	N 014746 B	1578/Cal/98	13-Feb-95		20-Apr-01	184753	13-Feb-15	EFM+ modulated system for high density
IN	N 014746 C	312/MAS/99	13-Feb-95				13-Feb-15	EFM+ modulated system for high density
IN	N 014746 D	877/CHENP/2004	13-Feb-95				13-Feb-15	EFM+ modulated system for high density

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IN	N 014746 E	878/CHE/2004	13-Feb-95				13-Feb-15	EFM+ modulated system for high density
IN	N 014752 A	505/MAS/99	14-Feb-95		12-Dec-05	193791	14-Feb-15	Block format with error coding interleave
IN	N 015452 -	1530/Cal/96	28-Aug-96		28-May-04	191592	28-Aug-16	EFM+ improved
IN	N 015452 A	80/Kol/2003	28-Aug-96				28-Aug-16	EFM+ improved
IN	N 017323 -	IN/PCT/00/0041811	11-Jan-00				11-Jan-20	Bi-phase modulation
IN	N 017323 A	01841/CHENP/051	11-Jan-00				11-Jan-20	Bi-phase modulation
IT	N 013146 -	90203049.3	19-Nov-90	0429139-A1	11-Jun-97	0429139	19-Nov-10	Discontinuous R/W using buffer
IT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
IT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
IT	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
IT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
IT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
IT	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
IT	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information on write strategy
IT-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
JP	N 012925 -	90-119649	08-May-90	91-3168	10-Mar-06	3778452	08-May-10	Additional information in pregroove
JP	N 013146 -	90-313817	19-Nov-90	91-176854	18-Feb-00	3035333	19-Nov-10	Discontinuous R/W using buffer
JP	N 014746 -	95-521693	01-Feb-95	97-512392	14-Mar-03	3408256	01-Feb-15	EFM+ modulated system for high density
JP	N 014746 B	05-203695	01-Feb-95	06-024356	15-Dec-06	3892020	01-Feb-15	EFM+ modulated system for high density
JP	N 014752 -	95-521698	14-Feb-95	96-509316	24-Jun-05	3691062	14-Feb-15	Block format with error coding interleave
JP	N 014752 A	04-348053	14-Feb-95	05-129222			14-Feb-15	Block format with error coding interleave
JP	N 014789 -	95-525542	21-Mar-95	96-511405	29-Aug-03	3467276	21-Mar-15	DC-free channel code
JP	N 015452 -	97-511019	26-Aug-96	98-508456	22-Dec-05	3754080	26-Aug-16	EFM+ improved
JP	N 015452 A	05-276620	26-Aug-96	06-087127	20-Apr-07	3946230	26-Aug-16	EFM+ improved
JP	N 015495 -	97-514097	24-Sep-96	99-513521			24-Sep-16	Velocity related information
JP	N 015495 A	07-206881	24-Sep-96				24-Sep-16	Velocity related information
JP	N 016078 -	98-523380	20-Oct-97	00-504462			20-Oct-17	Micro formatting

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JP	N 016187 -	98-528590	08-Dec-97	00-507027	16-Feb-07	3916675	08-Dec-17	Recorder reading gamma value from disc
JP	N 016269 -	98-523381	20-Oct-97	00-504463			20-Oct-17	Incremental formatting
JP	N 017323 -	00-595342	11-Jan-00	02-535801			11-Jan-20	Bi-phase modulation
JP	N 017399 -	00-587332	06-Dec-99	02-532817			06-Dec-19	Linking position
JP	Q 088006 -	88-92609	14-Apr-88	89-33726	04-Jun-99	2934634	14-Apr-08	Premastered information on write strategy
JP	Q 088006 A	98-42805	14-Apr-88	98-326437	02-Jun-06	3809851	14-Apr-08	Premastered information on write strategy
KR	N 011915 -	87-11994	29-Oct-87	95-6411	13-Oct-95	90182	14-Jun-10	Distribution of write energy
KR	N 013146 -	90-18855	21-Nov-90		19-Mar-99	202354	21-Nov-10	Discontinuous R/W using buffer
KR	N 014746 -	96-704550	01-Feb-95	10-1997-0701388	08-Mar-05	0477168	01-Feb-15	EFM+ modulated system for high density
KR	N 014746 A	10-2003-700492207	27-Apr-03	10-2004-0004394	11-Jan-05	0467125	01-Feb-15	EFM+ modulated system for high density
KR	N 014752 -	95-704556	14-Feb-95	96-0702152	28-Nov-02	0364332	14-Feb-15	Block format with error coding interleave
KR	N 014789 -	95-705575	21-Mar-95	10-1996-0702930	14-Nov-05	10-0529807	21-Mar-15	DC-free channel code
KR	N 015452 -	97-702860	26-Aug-96	10-1997-0707543	02-May-05	0488634	26-Aug-16	EFM+ improved
KR	N 015495 -	97-703582	24-Sep-96	10-1998-0700646	26-Jan-05	0470007	24-Sep-16	Velocity related information
KR	N 016078 -	98-705494	20-Oct-97	99-77347	26-Sep-05	0518641	20-Oct-17	Micro formatting
KR	N 016187 -	98-706553	08-Dec-97	99-87160	22-Aug-05	0511012	08-Dec-17	Recorder reading gamma value from disc
KR	N 016269 -	98-705495	20-Oct-97	99-77348	09-May-06	10-0580538	20-Oct-17	Incremental formatting
KR	N 017323 -	10-2000-701058111	11-Jan-00	01-0088288			11-Jan-20	Bi-phase modulation
KR	N 017399 -	10-2000-700865606	06-Dec-99	01-40767	26-Feb-07	10-689720	06-Dec-19	Linking position
KR	Q 088006 -	88-4522	21-Apr-88		17-Nov-00	281379	21-Apr-08	Premastered information on write strategy
LU	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
LU	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
LU	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
MC	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
MC	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
MC	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
MX	N 012925 -	20585	04-May-90		18-Jul-94	175243	04-May-10	Additional information in pregroove

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MX	N 014746 -	9603394	01-Feb-95		28-Jul-98	189493	01-Feb-15	EFM+ modulated system for high density
MX	N 015452 -	973161	26-Aug-96		06-Oct-03	216755	26-Aug-16	EFM+ improved
MX	N 015495 -	973953	24-Sep-96		11-Mar-03	213185	24-Sep-16	Velocity related information
MX	N 017323 -	009399	11-Jan-00		09-Feb-04	219120	11-Jan-20	Bi-phase modulation
MY	N 014746 -	PI9500357	14-Feb-95		30-Apr-01	112136	30-Apr-16	EFM+ modulated system for high density
MY	N 014752 -	PI9500378	15-Feb-95		30-Jun-04	117269	30-Jun-19	Block format with error coding interleave
MY	N 015452 -	PI9603603	29-Aug-96		30-Sep-03	MY-115841-A	30-Sep-18	EFM+ improved
MY	N 015495 -	PI9604010	27-Sep-96		30-Dec-05	120906	30-Dec-20	Velocity related information
MY	N 017323 -	PI20000203	21-Jan-00		30-Aug-06	125785-A	30-Aug-21	Bi-phase modulation
MY	N 017399 -	PI9905436	14-Dec-99		30-Jun-06	124073	30-Jun-21	Linking position
NL	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
NL	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
NL	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
NL	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
NL	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
NL-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
NO	N 014746 -	19963388	01-Feb-95		18-Dec-06	322948	01-Feb-15	EFM+ modulated system for high density
NO	N 014746 A	20043831	01-Feb-95				01-Feb-15	EFM+ modulated system for high density
NO	N 014746 B	20043830	01-Feb-95				01-Feb-15	EFM+ modulated system for high density
NO	N 017323 -	20004762	11-Jan-00				11-Jan-20	Bi-phase modulation
NZ	N 014746 -	278137	01-Feb-95	278137	23-Jun-97	278137	01-Feb-15	EFM+ modulated system for high density
PL	N 014746 -	P319407	01-Feb-95		04-Mar-02	192729	01-Feb-15	EFM+ modulated system for high density
PL	N 014746 A	P378756	01-Feb-95				01-Feb-15	EFM+ modulated system for high density
PL	N 015452 -	P320006	26-Aug-96		18-Oct-02	183099	26-Aug-16	EFM+ improved
PL	N 016187 -	P329119	08-Dec-97		03-Mar-03	185917	08-Dec-17	Recorder reading gamma value from disc
PL	N 017323 -	P343130	11-Jan-00				11-Jan-15	Bi-phase modulation
PT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density

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PT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
PT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
PT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
PT	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
PT-EP	N 017399 -	99958175.4	06-Dec-99	1055237-A1			06-Dec-19	Linking position
RO	N 014746 -	96-001653	01-Feb-95		30-Mar-04	119099	01-Feb-15	EFM+ modulated system for high density
RO	N 014746 A	01-00059	01-Feb-95		30-Apr-04	119260	01-Feb-15	EFM+ modulated system for high density
RU	N 014746 -	96118250	01-Feb-95	33	27-Jul-00	2153707	01-Feb-15	EFM+ modulated system for high density
RU	N 015452 -	97108582	26-Aug-96	15	20-Jul-00	2153200	26-Aug-16	EFM+ improved
RU	N 016187 -	98117821	08-Dec-97	18	20-Oct-03	2214629	08-Dec-17	Recorder reading gamma value from disc
RU	N 017323 -	200000982	11-Jan-00		27-Jun-02	002489	11-Jan-20	Bi-phase modulation
SE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ modulated system for high density
SE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format with error coding interleave
SE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
SE	N 017323 -	00906196.1	11-Jan-00	1066628-A1	12-Nov-03	1066628	11-Jan-20	Bi-phase modulation
SG	N 014752 -	9607077.6	14-Feb-95	0050623-A	24-Dec-01	50623	14-Feb-15	Block format with error coding interleave
SG	N 015452 -	9703300.5	26-Aug-96		15-Feb-02	44185	26-Aug-16	EFM+ improved
SG	N 015495 -	9803014.1	24-Sep-96		30-Dec-04	53769	24-Sep-16	Velocity related information
SG	N 017323 -	200005403.1	11-Jan-00		31-Jul-03	76154	11-Jan-20	Bi-phase modulation
SG	Q 088006 -	9491007.2	13-Apr-88		30-Mar-95	30001	13-Apr-08	Premastered information on write strategy
SI	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	9530188	01-Feb-15	EFM+ modulated system for high density
SK	N 014746 -	96-PP1051	01-Feb-95	96-PP1051	19-Nov-03	283798	01-Feb-15	EFM+ modulated system for high density
TR	N 014746 -	95-0136	15-Feb-95		22-Oct-02	29626	15-Feb-15	EFM+ modulated system for high density
TR	N 014752 -	95-0143	16-Feb-95		03-May-99	29401	16-Feb-15	Block format with error coding interleave
TR	N 017323 -	00-02734	11-Jan-00		22-Dec-03	TR200002734B1	11-Jan-20	Bi-phase modulation
TW	N 012925 -	78109833	19-Dec-89		24-Jan-91	41954	19-Dec-09	Additional information in pregroove
TW	N 013146 -	79108193	01-Oct-90	56055	12-Aug-92	56055	01-Oct-10	Discontinuous R/W using buffer

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TW	N 014746 -	84101360	15-Feb-95	294862	15-Apr-97	82864	15-Feb-15	EFM+ modulated system for high density
TW	N 014752 -	84101856	28-Feb-95	256904	20-Dec-95	73076	28-Feb-15	Block format with error coding interleave
TW	N 014789 -	84101322	14-Feb-95	267279	11-Apr-96	75391	14-Feb-15	DC-free channel code
TW	N 015452 -	85112032	02-Oct-96	394931	19-Oct-00	116382	02-Oct-16	EFM+ improved
TW	N 015495 -	85115279	10-Dec-96	397974	14-Nov-00	117476	10-Dec-16	Velocity related information
TW	N 016078 -	86116202	30-Oct-97	367488	21-Dec-99	105824	30-Oct-17	Micro formatting
TW	N 016187 -	87101195	02-Feb-98	365674	13-Dec-99	105425	02-Feb-18	Recorder reading gamma value from disc
TW	N 016269 -	86116203	30-Oct-97	368647	05-Jan-00	106430	30-Oct-17	Incremental formatting
TW	N 017323 -	089103152	23-Feb-00	512324	03-Apr-03	NI-167275	22-Feb-20	Bi-phase modulation
TW	N 017399 -	089104158	08-Mar-00	517224	07-May-03	NI-169779	07-Mar-20	Linking position
TW	Q 087009 -	77100278	18-Jan-88		15-Dec-89	33559	18-Jan-08	Premastered information on write strategy
UA	N 014746 -	96083269	01-Feb-95		15-Nov-01	42757	01-Feb-15	EFM+ modulated system for high density
UA	N 017323 -	2000106017	11-Jan-00	2000106017	15-Apr-04	65609	11-Jan-20	Bi-phase modulation
US	N 009666 C	07/375620	25-Jul-89		28-Oct-97	5682365	28-Oct-14	Pregrooved clock in disc
US	N 012398 -	07/265638	01-Nov-88		13-Feb-90	4901300	01-Nov-08	Synchronization of write signal and groove
US	N 012925 W	08/041141	31-Mar-93		23-May-95	5418764	23-May-12	Additional information in pregroove
US	N 012925 X	08/390451	17-Feb-95		05-Aug-97	5654947	05-Aug-14	Additional information in pregroove
US	N 013146 A	07/896803	09-Jun-92		18-May-93	5212678	28-Sep-10	Discontinuous R/W using buffer
US	N 013146 B	08/003345	12-Jan-93		31-Oct-95	5463607	31-Oct-12	Discontinuous R/W using buffer
US	N 014746 -	08/385533	08-Feb-95		09-Dec-97	5696505	08-Feb-15	EFM+ modulated system for high density
US	N 014746 K	90/006637	09-May-03				09-May-23	EFM+ modulated system for high density
US	N 014746 R	09/899091	08-Feb-95				08-Feb-15	EFM+ modulated system for high density
US	N 014752 -	08/389369	16-Feb-95		17-Nov-98	5838696	16-Feb-15	Block format with error coding interleave
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	EFM+ improved
US	N 015495 -	08/722651	30-Sep-96		10-Nov-98	5835462	30-Sep-16	Velocity related information
US	N 016078 -	08/971186	17-Nov-97		27-Mar-01	6208602	17-Nov-17	Micro formatting

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US	N 016078 A	09/636723	11-Aug-00		19-Mar-02	6359844	17-Nov-17	Micro formatting
US	N 016187 B	11/023026	23-Dec-04	2005-0152248-A1	17-Dec-06	7123563	02-Dec-17	Recorder reading gamma value from disc
US	N 016187 C	11/536029	28-Sep-06	2007-0019524-A1			02-Dec-17	Recorder reading gamma value from disc
US	N 016269 -	08/972756	18-Nov-97		21-Nov-00	6151281	18-Nov-17	Incremental formatting
US	N 016269 A	09/589482	07-Jun-00		15-Apr-03	6549489	18-Nov-17	Incremental formatting
US	N 016269 B	10/376218	27-Feb-03	2003-0156522-A1			18-Nov-17	Incremental formatting
US	N 017323 -	09/490384	24-Jan-00		25-Mar-03	6538982	24-Jan-20	Bi-phase modulation
US	N 017323 A	10/350939	24-Jan-03	2003-0133400-A1	20-Jul-04	6765861	24-Jan-20	Bi-phase modulation
US	N 017323 B	10/848299	18-May-04	2004-0213119-A1			24-Jan-20	Bi-phase modulation
US	N 017399 -	09/601754	06-Dec-99		30-Sep-03	6628583	06-Dec-19	Linking position
US	N 017399 A	10/633340	01-Aug-03	2004-0022145-A1	22-Nov-05	6967909	06-Dec-19	Linking position
US	N 017399 B	11/142624	01-Jun-05	2005-0219974-A1			06-Dec-19	Linking position
US	Q 088006 A	07/538587	14-Jun-90		19-Mar-91	5001692	08-Apr-08	Premastered information on write strategy
VE	N 015452 -	96-1517	30-Aug-96		07-Oct-02	57944	30-Aug-16	EFM+ improved
VE	N 017323 -	00-000158	21-Jan-00	BUL.NO.450			21-Jan-20	Bi-phase modulation
VN	N 014746 -	S19960099	13-Aug-96		25-Oct-00	1407	13-Aug-11	EFM+ modulated system for high density
VN	N 015452 -	S19970327	25-Apr-97		27-Nov-00	1598	25-Apr-17	EFM+ improved
VN	N 015495 -	S19970443	24-Sep-96		16-Jan-02	2540	24-Sep-16	Velocity related information
VN	N 017323 -	S20000827	11-Jan-00		18-May-04	4313	11-Jan-20	Bi-phase modulation
ZA	N 014746 -	95-1115	10-Feb-95		30-Oct-96	95-1115	10-Feb-15	EFM+ modulated system for high density
ZA	N 014752 -	951194	14-Feb-95		30-Oct-96	95-1194	14-Feb-15	Block format with error coding interleave
ZA	N 015452 -	967261	27-Aug-96		27-May-98	96/7261	27-Aug-16	EFM+ improved
ZA	N 017323 -	00-5068	11-Jan-00		27-Dec-01	2000-5068	11-Jan-20	Bi-phase modulation