

## Annex A1 to the DVD-RAM Recorder Patent License Agreement

### Essential Philips Patents relevant to DVD-RAM Recorder / DVD-RAM Part

<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>
AR	N 012398	- 312996	17-Jan-89		255370	21-Nov-16	Synchronization of write signal and pregroove
BR	N 015776	- PI9702078.8	07-Feb-97	PI9702078	PI9702078.8	07-Feb-17	DVD - RAM random shift
CN	N 015776	- 97190319.0	07-Feb-97	1188558-A	ZL97190319.0	07-Feb-17	DVD - RAM random shift
CN	N 015982	- 97191255.6	25-Aug-97	1205103-A	97191255.6	25-Aug-17	DVD RAM time slip recording
DE	N 015776	- 97901214.3	07-Feb-97	0821828-A1	69723165.8	07-Feb-17	DVD - RAM random shift
DE	N 015982	- 97934680.6	25-Aug-97	0861490-A1	69725695.2	25-Aug-17	DVD RAM time slip recording
DE	N 016086	- 97923278.2	09-Jun-97		69736919.6	09-Jun-17	DVD control in sector header
ES	N 015776	- 97901214.3	07-Feb-97	0821828-A1	0821828	07-Feb-17	DVD - RAM random shift
FR	N 015776	- 97901214.3	07-Feb-97	0821828-A1	0821828	07-Feb-17	DVD - RAM random shift
FR	N 015982	- 97934680.6	25-Aug-97	0861490-A1	0861490	25-Aug-17	DVD RAM time slip recording
FR	N 016086	- 97923278.2	09-Jun-97		0846321	09-Jun-17	DVD control in sector header
GB	N 015776	- 97901214.3	07-Feb-97	0821828-A1	0821828	07-Feb-17	DVD - RAM random shift
GB	N 015982	- 97934680.6	25-Aug-97	0861490-A1	0861490	25-Aug-17	DVD RAM time slip recording
HU	N 015776	- P9901480	07-Feb-97			07-Feb-17	DVD - RAM random shift
HU	N 016086	- P9802490	09-Jun-97			09-Jun-17	DVD control in sector header
IT	N 015776	- 97901214.3	07-Feb-97	0821828-A1	0821828	07-Feb-17	DVD - RAM random shift
JP	N 015776	- 97-529148	07-Feb-97	99-504461	4090501	07-Feb-17	DVD - RAM random shift
JP	N 015982	- 98-513431	25-Aug-97	00-501876	4616942	25-Aug-17	DVD RAM time slip recording
JP	N 016086	- 98-502590	09-Jun-97	99-513165		09-Jun-17	DVD control in sector header
KR	N 012398	- 89-562	20-Jan-89		152430	26-Jun-13	Synchronization of write signal and pregroove
KR	N 015776	- 97-707294	07-Feb-97		0487680	07-Feb-17	DVD - RAM random shift
KR	N 015982	- 98-703627	25-Aug-97	99-67601	10-0566049	25-Aug-17	DVD RAM time slip recording
KR	N 016086	- 98-701397	09-Jun-97	99-44163	0489912	09-Jun-17	DVD control in sector header
MY	N 015776	- PI9700546	14-Feb-97		MY-117846-A	30-Aug-19	DVD - RAM random shift
MY	N 016086	- PI9702896	26-Jun-97		132736	31-Oct-22	DVD control in sector header
PL	N 015776	- P322824	07-Feb-97	P322824	184577	07-Feb-17	DVD - RAM random shift
RU	N 016086	- 98105583	09-Jun-97		2219596	09-Jun-17	DVD control in sector header
SG	N 015776	- 9705144.5	07-Feb-97		46833	07-Feb-17	DVD - RAM random shift
TW	N 015776	- 85106262	27-May-96	310423	87771	27-May-16	DVD - RAM random shift
TW	N 015982	- 86114476	03-Oct-97	358203	102809	03-Oct-17	DVD RAM time slip recording

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US	N 009666 C	07/375620	25-Jul-89		5682365	28-Oct-14	Recording apparatus using pregrooved clock in disc
US	N 015776 -	08/800633	14-Feb-97		6115340	14-Feb-17	DVD - RAM random shift
US	N 015776 A	09/619071	19-Jul-00		6469968	14-Feb-17	DVD - RAM random shift
US	N 015982 -	08/919079	27-Aug-97		6169842	27-Aug-17	DVD RAM time slip recording
US	N 016086 -	08/873261	11-Jun-97		6031815	11-Jun-17	DVD control in sector header
VN	N 015776 -	S19970933	07-Feb-97		2271	07-Feb-17	DVD - RAM random shift