

Exhibit E3 to the DVD+RW/+R Recorder Patent License Agreement

Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video 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	B 033973 -	P960101256	02-Feb-96		18-Dec-03	AR001077	02-Feb-16	Subtitle runlength compression
AR	N 017516 -	P000103204	26-Jun-00		22-Jun-06	AR025182	26-Jun-20	Order of Titles
AR	N 017517 -	P000103206	26-Jun-00		15-Feb-06	AR025184	26-Jun-20	Numbering of video objects and cells
AR	N 017518 -	P000103205	26-Jun-00		16-Feb-06	AR025183	26-Jun-20	Incomplete streams
AR	N 017522 -	P000103253	28-Jun-00		21-Feb-06	AR024876	28-Jun-20	Data allocation in DVD recording
AT	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	E191600	26-Jan-16	Subtitle runlength compression
AT	N 015087 -	95934799.8	08-Nov-95	0740832-B1	07-Jun-00	E193782	08-Nov-15	Data structure indicator in header
AT	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	E188327	12-Dec-15	Subtitle compression (region/subregion)
AT	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	E213113	12-Jul-16	Subtitle duration
AT	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	E206859	21-Nov-16	Multi channel interface via IEC 958 (1)
AT	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	E347168	21-Jun-20	Order of Titles
AT	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	E341156	23-Jun-20	Numbering of video objects and cells
AT	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	E-458247	23-Jun-20	Data allocation in DVD recording
AT-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
AU	B 033973 -	96-43985	26-Jan-96	96-43985 695626	03-Dec-98	695626	26-Jan-16	Subtitle runlength compression
AU	N 015087 -	95-37081	08-Nov-95	95-37081 690751	13-Aug-98	690751	08-Nov-15	Data structure indicator in header
AU	N 015156 -	96-45040	12-Dec-95	199645040 701684	20-May-99	701684	12-Dec-15	Subtitle compression (region/subregion)
AU	N 017191 -	00-17748	05-Nov-99	763462	06-Nov-03	763462	05-Nov-19	One pass recording, dynamic pointers
AU	N 017517 -	00-56860	23-Jun-00	771833	15-Jul-04	771833	23-Jun-20	Numbering of video objects and cells
AU	N 017518 -	00-58200	23-Jun-00	771828	15-Jul-04	771828	23-Jun-20	Incomplete streams
BE	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
BE	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
BE	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
BE	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
BE	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles

(1) Relevant only to DVD-Video Players having digital audio output, such as for example SPDIF

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BE	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
BE	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
BE-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
BE-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
BE-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
BR	B 033973 -	PI9605110.8	26-Jan-96	PI9605110.8	06-Aug-02	PI9605110.8	26-Jan-16	Subtitle runlength compression
BR	N 015156 -	PI9506773.6	12-Dec-95	PI9506773.6	14-Oct-03	PI9506773.6	12-Dec-15	Subtitle compression (region/subregion)
BR	N 015156 A	PI9510769.0	12-Dec-95		31-Aug-04	PI9510769	12-Dec-15	Subtitle compression (region/subregion)
BR	N 017191 -	PI9907016.2	05-Nov-99				05-Nov-19	One pass recording, dynamic pointers
BR	N 017380 -	PI0005551.4	09-Mar-00				09-Mar-20	Controlled one-pass VBR MPEG
BR	N 017516 -	PI0006855.1	21-Jun-00				21-Jun-20	Order of Titles
BR	N 017517 -	PI0006852.7	23-Jun-00				23-Jun-20	Numbering of video objects and cells
BR	N 017518 -	PI0006856.0	23-Jun-00				23-Jun-20	Incomplete streams
BR	N 017522 -	PI0006866.7	23-Jun-00				23-Jun-20	Data allocation in DVD recording
CA	B 033973 -	2187018	26-Jan-96	2187018	18-Oct-05	2187018	26-Jan-16	Subtitle runlength compression
CA	N 015087 -	2181460	08-Nov-95		26-Apr-05	2181460	08-Nov-15	Data structure indicator in header
CA	N 015156 -	2183257	12-Dec-95				12-Dec-15	Subtitle compression (region/subregion)
CA	N 015395 -	2200335	12-Jul-96				12-Jul-16	Subtitle duration
CA	N 017191 -	2318120	05-Nov-99		02-Jun-09	2318120	05-Nov-19	One pass recording, dynamic pointers
CA	N 017516 -	2341658	21-Jun-00		09-Feb-10	2341658	21-Jun-20	Order of Titles
CA	N 017517 -	2342137	23-Jun-00		26-Aug-08	2342137	23-Jun-20	Numbering of video objects and cells
CA	N 017518 -	2341493	23-Jun-00		14-Oct-08	2341493	23-Jun-20	Incomplete streams
CA	N 017522 -	2341910	23-Jun-00		23-Nov-10	2341910	23-Jun-20	Data allocation in DVD recording
CH	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
CH	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
CH	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
CH	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles

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Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video 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>
CH	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
CH	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
CH-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
CH-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
CN	B 033973 -	96190224.8	26-Jan-96	1148927-A	22-Dec-04	96190224.8	26-Jan-16	Subtitle runlength compression
CN	N 015087 A	200310123905.X	08-Nov-95	1534663-A	02-May-07	2003101239	08-Nov-15	Data structure indicator in header
CN	N 015156 -	95192413.3	12-Dec-95	1145152-A	08-Sep-04	95192413.3	12-Dec-15	Subtitle compression (region/subregion)
CN	N 015156 A	200410063455.4	12-Dec-95	1585475-A	07-Nov-07	2004100634	12-Dec-15	Subtitle compression (region/subregion)
CN	N 015395 -	96190772.X	12-Jul-96	1163688-A	08-Dec-04	96190772.X	12-Jul-16	Subtitle duration
CN	N 015395 A	200410069653.1	12-Jul-96	1574942-A	11-Jul-07	2004100696	12-Jul-16	Subtitle duration
CN	N 015395 B	200610084733.3	12-Jul-96	1878280-A	13-Oct-10	2006100847	12-Jul-16	Subtitle duration
CN	N 015603 -	96192855.7	21-Nov-96	1179870-A	18-May-05	96192855.7	21-Nov-16	Multi channel interface via IEC 958 (1)
CN	N 017191 -	99804059.2	05-Nov-99	1293815-A	16-Jun-04	99804059.2	05-Nov-19	One pass recording, dynamic pointers
CN	N 017380 -	00800960.0	09-Mar-00	1310922-A	16-Jun-10	00800960.0	09-Mar-20	Controlled one-pass VBR MPEG
CN	N 017516 -	00801793.X	21-Jun-00	1321317-A	02-May-07	1314048	21-Jun-20	Order of Titles
CN	N 017517 -	00801794.8	23-Jun-00	1321392-A	05-Jan-05	00801794.8	23-Jun-20	Numbering of video objects and cells
CN	N 017518 -	00801797.2	23-Jun-00	1321393-A	18-May-05	00801797.2	23-Jun-20	Incomplete streams
CN	N 017522 -	00801847.2	23-Jun-00	1321318-A	29-Apr-09	00801847.2	23-Jun-20	Data allocation in DVD recording
CY	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
CY	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
CY	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
CZ	B 033973 -	96-PV2885	26-Jan-96		10-Dec-01	289508	26-Jan-16	Subtitle runlength compression
CZ	N 017516 -	01-PV693	21-Jun-00		24-Jul-08	299570	21-Jun-20	Order of Titles
CZ	N 017518 -	01-PV691	23-Jun-00		11-Aug-06	297186	23-Jun-20	Incomplete streams
DE	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	69607529.6	26-Jan-16	Subtitle runlength compression
DE	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	69517413.4	08-Nov-15	Data structure indicator in header
DE	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	69514212.7	12-Dec-15	Subtitle compression (region/subregion)

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DE	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	69619091.5	12-Jul-16	Subtitle duration
DE	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	69615826.4	21-Nov-16	Multi channel interface via IEC 958 (1)
DE	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	60032105.3	21-Jun-20	Order of Titles
DE	N 017517 -	00942133.0	23-Jun-00	60030944.4	27-Sep-06	60030944.4	23-Jun-20	Numbering of video objects and cells
DE	N 017518 -	00943889.6	23-Jun-00		01-Feb-06	60025828.9	23-Jun-20	Incomplete streams
DE	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	60043837.6	23-Jun-20	Data allocation in DVD recording
DE-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
DE-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
DE-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
DK	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
DK	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
DK	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
DK	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
DK	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
DK	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
EG	N 017522 -	00-849	28-Jun-00		08-Jan-03	22391	27-Jun-20	Data allocation in DVD recording
EP	N 017517 A	06117309.2	23-Jun-00	1708199-A2			23-Jun-20	Numbering of video objects and cells
ES	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	2145991	26-Jan-16	Subtitle runlength compression
ES	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
ES	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	2143092	12-Dec-15	Subtitle compression (region/subregion)
ES	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
ES	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
ES	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
ES	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
ES-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
ES-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
ES-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG

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FI	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
FI	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
FI	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
FI	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
FR	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
FR	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
FR	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
FR	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
FR	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	0811295	21-Nov-16	Multi channel interface via IEC 958 (1)
FR	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
FR	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
FR	N 017518 -	00943889.6	23-Jun-00		01-Feb-06	1108328	23-Jun-20	Incomplete streams
FR	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
FR-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
FR-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
FR-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
GB	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
GB	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
GB	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
GB	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
GB	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	0811295	21-Nov-16	Multi channel interface via IEC 958 (1)
GB	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
GB	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
GB	N 017518 -	00943889.6	23-Jun-00		01-Feb-06	1108328	23-Jun-20	Incomplete streams
GB	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
GB-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
GB-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers

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GB-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
GR	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
GR	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
GR	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
GR	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
GR	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
GR	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
GR	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
HK	B 033973 -	98114635.5	26-Jan-96	1013385-A	1013385-B24-Nov-00	HK1013385	25-Jan-16	Subtitle runlength compression
HK	N 015087 -	98114932.5	08-Nov-95	1013719-A	1013719-B23-Mar-01	HK1013719	07-Nov-15	Data structure indicator in header
HK	N 017172 -	01103608.7	05-Nov-99	1033026-A	1033026-A		05-Nov-19	One pass recording, static data
HK	N 017191 -	01103159.0	05-Nov-99	1033383-A	1033383-A		05-Nov-19	One pass recording, dynamic pointers
HK	N 017380 -	01106003.1	09-Mar-00	1037442-A	1037442-A		09-Mar-20	Controlled one-pass VBR MPEG
HU	B 033973 -	P9602710	26-Jan-96				26-Jan-16	Subtitle runlength compression
HU	N 015603 -	P9801262	21-Nov-96	9801262			21-Nov-16	Multi channel interface via IEC 958 (1)
HU	N 017516 -	P0103983	21-Jun-00	P0103983	P010398327-Feb-06	224951	21-Jun-20	Order of Titles
HU	N 017517 -	P0103739	23-Jun-00				23-Jun-20	Numbering of video objects and cells
HU	N 017518 -	P0103952	23-Jun-00	P0103952	07-Aug-06	224998	23-Jun-20	Incomplete streams
HU	N 017522 -	P01-04048	23-Jun-00	P01-04048	P01-04048		23-Jun-20	Data allocation in DVD recording
ID	B 033973 -	P-960281	05-Feb-96	Unknown	25-Jul-01	ID0006497	05-Feb-16	Subtitle runlength compression
ID	N 015395 -	P-962077	22-Jul-96		17-Dec-02	ID0009413	22-Jul-16	Subtitle duration
ID	N 017191 -	W-20001362	05-Nov-99	026867-A	12-Jun-03	ID0010894	05-Nov-19	One pass recording, dynamic pointers
ID	N 017380 -	W-002429	09-Mar-00	029.541 A			09-Mar-20	Controlled one-pass VBR MPEG
ID	N 017516 -	W-0100435	21-Jun-00	029100-A	04-Jul-07	0019532	21-Jun-20	Order of Titles
ID	N 017517 -	W-0100436	23-Jun-00	030177-A	13-Jan-06	ID0016902	23-Jun-20	Numbering of video objects and cells
ID	N 017518 -	W-00200100368	23-Jun-00	028.882 A	24-Feb-06	ID0017033	23-Jun-20	Incomplete streams
ID	N 017522 -	W-0100467	23-Jun-00	029.392 A			23-Jun-20	Data allocation in DVD recording

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Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video 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>
IE	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
IE	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
IE	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
IE	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
IE	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
IL	B 033973 -	117028	04-Feb-96		28-Oct-99	117028	04-Feb-16	Subtitle runlength compression
IL	N 017191 -	137284	05-Nov-99	137284	13-Aug-04	137284	05-Nov-19	One pass recording, dynamic pointers
IL	N 017516 -	141620	21-Jun-00		14-Jul-08	141620	21-Jun-20	Order of Titles
IL	N 017517 -	141585	23-Jun-00		21-Feb-06	141585	23-Jun-20	Numbering of video objects and cells
IL	N 017518 -	141619	23-Jun-00		21-Feb-06	141619	23-Jun-20	Incomplete streams
IL	N 017522 -	141643	23-Jun-00		02-Dec-09	141643	23-Jun-20	Data allocation in DVD recording
IN	B 033973 -	159/Cal/96	31-Jan-96		04-Oct-02	187262	31-Jan-16	Subtitle runlength compression
IN	N 017191 -	IN/PCT/00/0018805	Nov-99		12-Feb-08	214445	05-Nov-19	One pass recording, dynamic pointers
IN	N 017191 A	1393/CHE/2005	05-Nov-99				05-Nov-19	One pass recording, dynamic pointers
IN	N 017380 -	IN/PCT/00/0072309	Mar-00		16-Oct-06	202343	09-Mar-20	Controlled one-pass VBR MPEG
IN	N 017516 -	IN/PCT/01/0025821	Jun-00		28-Jan-09	228194	21-Jun-20	Order of Titles
IN	N 017517 -	IN/PCT/01/0025923	Jun-00		17-Dec-07	212804	23-Jun-20	Numbering of video objects and cells
IN	N 017518 -	IN/PCT/01/0026023	Jun-00		25-Jan-08	212805	23-Jun-20	Incomplete streams
IN	N 017522 -	IN/PCT/01/0027423	Jun-00		05-Mar-08	215983	23-Jun-20	Data allocation in DVD recording
IT	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
IT	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
IT	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
IT	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
IT	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	0811295	21-Nov-16	Multi channel interface via IEC 958 (1)
IT	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
IT	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
IT	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording

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Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video part

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IT-EP	N 017172 -	99962137.8	05-Nov-99	1057184-A1			05-Nov-19	One pass recording, static data
IT-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
IT-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
JP	B 033973 -	96-524103	26-Jan-96	98-500273	17-Jun-05	3688297	26-Jan-16	Subtitle runlength compression
JP	N 015087 -	96-516712	08-Nov-95	97-507947	08-Sep-06	3850031	08-Nov-15	Data structure indicator in header
JP	N 015087 A	06-156822	08-Nov-95	06-277931	17-Oct-08	4201802	08-Nov-15	Data structure indicator in header
JP	N 015156 -	96-518541	12-Dec-95	97-509552	23-Feb-07	3918033	12-Dec-15	Subtitle compression (region/subregion)
JP	N 015156 A	06-127068	12-Dec-95	06-287951	14-Aug-09	4358838	12-Dec-15	Subtitle compression (region/subregion)
JP	N 015156 B	07-264491	12-Dec-95	08-079325	07-Jan-11	4658107	12-Dec-15	Subtitle compression (region/subregion)
JP	N 015156 C	10-197229	12-Dec-95				12-Dec-15	Subtitle compression (region/subregion)
JP	N 015395 -	97-506485	12-Jul-96	98-507607	22-Jan-10	4442929	12-Jul-16	Subtitle duration
JP	N 015395 A	07-029641	12-Jul-96	07-228576	22-Jan-10	4443578	12-Jul-16	Subtitle duration
JP	N 015603 -	97-521104	21-Nov-96	99-500564	20-Jul-07	3986084	21-Nov-16	Multi channel interface via IEC 958 (1)
JP	N 015603 A	06-339470	21-Nov-96	07-109397	13-Jul-07	3983268	21-Nov-16	Multi channel interface via IEC 958 (1)
JP	N 017172 -	00-583036	05-Nov-99	02-530800	09-Oct-09	4388701	05-Nov-19	One pass recording, static data
JP	N 017191 -	00-583037	05-Nov-99	02-530801			05-Nov-19	One pass recording, dynamic pointers
JP	N 017191 A	09-298225	05-Nov-99	2010-135057			05-Nov-19	One pass recording, dynamic pointers
JP	N 017380 -	00-608620	09-Mar-00	02-540742	12-Mar-10	4474051	09-Mar-20	Controlled one-pass VBR MPEG
JP	N 017516 -	01-506550	21-Jun-00	2003-503926			21-Jun-20	Order of Titles
JP	N 017517 -	01-506228	23-Jun-00	03-503909	01-Oct-10	4599011	23-Jun-20	Numbering of video objects and cells
JP	N 017518 -	01-506227	23-Jun-00	2003-503805			23-Jun-20	Incomplete streams
JP	N 017522 -	01-506551	23-Jun-00	03-503811	01-Oct-10	4599012	23-Jun-20	Data allocation in DVD recording
KR	B 033973 -	10-1996-070563	26-Jan-96	97-0702672	24-Oct-03	404526	26-Jan-16	Subtitle runlength compression
KR	N 015087 -	96-704010	08-Nov-95		09-Jun-03	388370	08-Nov-15	Data structure indicator in header
KR	N 015156 -	96-704513	12-Dec-95		19-May-05	0491771	12-Dec-15	Subtitle compression (region/subregion)
KR	N 015395 -	97-701801	12-Jul-96	10-1997-0706689	06-Aug-04	0444637	12-Jul-16	Subtitle duration
KR	N 015603 -	10-1997-070542	21-Nov-96	98-0702026	02-Dec-04	0461211	21-Nov-16	Multi channel interface via IEC 958 (1)

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Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video part

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KR	N 017172 -	10-2000-700781	05-Nov-99	01-34180	18-May-06	10-583358	05-Nov-19	One pass recording, static data
KR	N 017191 -	10-2000-700781	05-Nov-99	01-34179	18-May-06	10-0583357	05-Nov-19	One pass recording, dynamic pointers
KR	N 017380 -	10-2000-701321	09-Mar-00	01-25105	08-Oct-07	10-0766800	09-Mar-20	Controlled one-pass VBR MPEG
KR	N 017516 -	10-2001-700225	21-Jun-00	10-2001-0072854	29-Jan-07	10-0678451	21-Jun-20	Order of Titles
KR	N 017517 -	10-2001-700225	23-Jun-00	01-0072853	20-Apr-07	10-0712105	23-Jun-20	Numbering of video objects and cells
KR	N 017518 -	10-2001-700225	23-Jun-00	01-0072852	24-Jul-06	10-0606868	23-Jun-20	Incomplete streams
KR	N 017522 -	10-2001-700241	23-Jun-00	01-0072969	24-Jul-06	10-0606869	23-Jun-20	Data allocation in DVD recording
LU	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
LU	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
LU	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
LU	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
LU	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
MC	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
MC	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
MC	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
MC	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
MX	N 015087 -	962808	08-Nov-95		17-Dec-01	205654	08-Nov-15	Data structure indicator in header
MX	N 015156 -	963393	12-Dec-95		28-Nov-00	199847	12-Dec-15	Subtitle compression (region/subregion)
MX	N 015395 -	1997/002108	12-Jul-96		02-May-03	214263	12-Jul-16	Subtitle duration
MX	N 017516 -	01-002072	21-Jun-00				21-Jun-20	Order of Titles
MX	N 017517 -	01-002074	23-Jun-00		21-Sep-07	249240	23-Jun-20	Numbering of video objects and cells
MX	N 017518 -	01-001965	23-Jun-00				23-Jun-20	Incomplete streams
MX	N 017522 -	01-002070	23-Jun-00		13-Nov-06	273640	23-Jun-20	Data allocation in DVD recording
MY	B 033973 -	PI9600392	02-Feb-96		30-Sep-03	115792	30-Sep-18	Subtitle runlength compression
MY	N 015156 -	PI9503869	14-Dec-95		30-Apr-05	119200	30-Apr-20	Subtitle compression (region/subregion)
MY	N 015395 -	PI9602983	19-Jul-96		28-Feb-06	121602	28-Feb-21	Subtitle duration
MY	N 017172 -	PI9904933	12-Nov-99		30-Aug-06	125630A	30-Aug-21	One pass recording, static data

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Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video part

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MY	N 017380 -	PI20001144	23-Mar-00		31-May-06	MY-123505-	31-May-21	Controlled one-pass VBR MPEG
MY	N 017516 -	PI20002826	22-Jun-00		31-Jan-07	128211-A	31-Jan-22	Order of Titles
MY	N 017517 -	PI20002862	23-Jun-00					Numbering of video objects and cells
MY	N 017518 -	PI20002860	23-Jun-00		31-Jul-06	125087	31-Jul-21	Incomplete streams
MY	N 017522 -	PI20002884	27-Jun-00		29-Dec-06	127689-MY	29-Dec-21	Data allocation in DVD recording
NL	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
NL	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
NL	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
NL	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
NL	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
NL	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
NL-EP	N 017191 -	99960966.2	05-Nov-99	1050049-A1			05-Nov-19	One pass recording, dynamic pointers
NL-EP	N 017380 -	00918776.6	09-Mar-00	1082856-A1			09-Mar-20	Controlled one-pass VBR MPEG
PL	B 033973 -	P316679	26-Jan-96		02-Jun-03	186340	26-Jan-16	Subtitle runlength compression
PL	N 015603 -	P321707	21-Nov-96		03-Jul-01	182469	21-Nov-16	Multi channel interface via IEC 958 (1)
PL	N 015603 A	P347873	21-Nov-96		18-Oct-02	183167	21-Nov-16	Multi channel interface via IEC 958 (1)
PL	N 017516 -	P346264	21-Jun-00		12-Jun-08	200622	21-Jun-20	Order of Titles
PL	N 017517 -	P346279	23-Jun-00		12-Jun-08	200623	23-Jun-20	Numbering of video objects and cells
PL	N 017518 -	P346241	23-Jun-00		12-Jun-08	200639	23-Jun-20	Incomplete streams
PL	N 017522 -	P346334	23-Jun-00		26-May-10	Unknown	23-Jun-20	Data allocation in DVD recording
PT	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
PT	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
PT	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
PT	N 015395 -	96921025.1	12-Jul-96	0787404-A1	06-Feb-02	0787404	12-Jul-16	Subtitle duration
PT	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
PT	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
PT	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording

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RU	B 033973 -	9700011	26-Jan-96		25-Jun-98	EA000082	26-Jan-16	Subtitle runlength compression
RU	N 017516 -	2001107839	21-Jun-00		27-Dec-05	2267172	21-Jun-20	Order of Titles
RU	N 017517 -	2001107849	23-Jun-00		27-Apr-06	2275752	23-Jun-20	Numbering of video objects and cells
RU	N 017518 -	2001107837	23-Jun-00		10-Dec-05	2265963	23-Jun-20	Incomplete streams
RU	N 017522 -	2001108363	23-Jun-00		10-Jan-06	2267822	23-Jun-20	Data allocation in DVD recording
SE	B 033973 -	96900402.7	26-Jan-96	0754393-A1	05-Apr-00	0754393	26-Jan-16	Subtitle runlength compression
SE	N 015087 -	95934799.8	08-Nov-95	0740832-A1	07-Jun-00	0740832	08-Nov-15	Data structure indicator in header
SE	N 015156 -	95943556.1	12-Dec-95	0745307-A1	29-Dec-99	0745307	12-Dec-15	Subtitle compression (region/subregion)
SE	N 017516 -	00943846.6	21-Jun-00		29-Nov-06	1110222	21-Jun-20	Order of Titles
SE	N 017517 -	00942133.0	23-Jun-00		27-Sep-06	1108327	23-Jun-20	Numbering of video objects and cells
SE	N 017522 -	00947879.3	23-Jun-00		17-Feb-10	1110223	23-Jun-20	Data allocation in DVD recording
SG	B 033973 -	9611564.7	26-Jan-96		25-May-99	34670	26-Jan-16	Subtitle runlength compression
SG	N 015087 -	9702180.2	08-Nov-95		22-Jun-99	41092	08-Nov-15	Data structure indicator in header
SG	N 015395 -	9704506.6	12-Jul-96		19-Dec-00	45664	12-Jul-16	Subtitle duration
SG	N 017172 -	200003930.5	05-Nov-99		02-Oct-02	74787	05-Nov-19	One pass recording, static data
SG	N 017380 -	200006886.6	09-Mar-00		31-Oct-03	77750	09-Mar-20	Controlled one-pass VBR MPEG
TH	N 017517 -	0001002283	23-Jun-00	49598	05-Jan-10	27249	23-Jun-20	Numbering of video objects and cells
TH	N 017522 -	058549	26-Jun-00	49599			26-Jun-20	Data allocation in DVD recording
TR	B 033973 -	96-00787	26-Jan-96		21-May-02	TR1996/007826	26-Jan-16	Subtitle runlength compression
TR	N 017517 -	01-00641	23-Jun-00		23-Feb-04	000641B	23-Jun-20	Numbering of video objects and cells
TR	N 017518 -	01-00568	23-Jun-00		22-Mar-04	00568	23-Jun-20	Incomplete streams
TR	N 017522 -	01-00602	23-Jun-00	2001-00602	23-Jan-06	2001-00602	23-Jun-20	Data allocation in DVD recording
TW	N 015087 -	84113943	27-Dec-95	292382	13-Mar-97	82165	27-Dec-15	Data structure indicator in header
TW	N 015395 -	84108602	17-Aug-95		03-Apr-97	82652	17-Aug-15	Subtitle duration
TW	N 017172 -	088123277	30-Dec-99	455849	25-Jan-02	141903	29-Dec-19	One pass recording, static data
TW	N 017191 -	088121445	08-Dec-99	459217	01-Feb-02	142224	07-Dec-19	One pass recording, dynamic pointers
TW	N 017380 -	089102701	17-Feb-00	477152	06-Jun-02	150584	16-Feb-20	Controlled one-pass VBR MPEG

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TW	N 017516	-	089116167	11-Aug-00	472240	07-May-02	148739	11-Aug-20	Order of Titles
TW	N 017517	-	089116164	11-Aug-00	488160	05-Sep-02	NI-155544	11-Aug-20	Numbering of video objects and cells
TW	N 017518	-	089116165	11-Aug-00	548976	16-Dec-03	183718	11-Aug-20	Incomplete streams
TW	N 017522	-	089116009	09-Aug-00	513701	17-Apr-03	NI-168501	08-Aug-20	Data allocation in DVD recording
US	B 033973	-	08/593963	30-Jan-96		09-Oct-01	6301389	30-Jan-16	Subtitle runlength compression
US	N 015087	-	08/558515	16-Nov-95		06-Jul-99	5920874	16-Nov-15	Data structure indicator in header
US	N 015156	-	08/572255	13-Dec-95		09-Dec-03	6661467	13-Dec-15	Subtitle compression (region/subregion)
US	N 015156	A	10/685245	14-Oct-03	2004-0075668-A1	12-Jan-10	7647620	13-Dec-15	Subtitle compression (region/subregion)
US	N 015156	R		14-Oct-03				13-Dec-15	Subtitle compression (region/subregion)
US	N 015395	A	10/309588	04-Dec-02	2003-0117529-A1			18-Aug-15	Subtitle duration
US	N 015395	B		04-Dec-02				18-Aug-15	Subtitle duration
US	N 015603	-	08/798198	09-Dec-96		13-Jun-00	6076062	09-Dec-16	Multi channel interface via IEC 958 (1)
US	N 015603	R	10/170822	13-Jun-02				09-Dec-19	Multi channel interface via IEC 958 (1)
US	N 017172	-	09/439198	12-Nov-99		23-Apr-02	6377518	12-Nov-19	One pass recording, static data
US	N 017172	A	10/061179	01-Feb-02	2002-0131767-A1	03-Apr-07	7200073	12-Nov-19	One pass recording, static data
US	N 017191	-	09/439197	12-Nov-99	2003-0044163-A1	12-Nov-02	6480666	12-Nov-19	One pass recording, dynamic pointers
US	N 017191	A	10/270399	11-Oct-02		08-Jun-04	6748159	12-Nov-19	One pass recording, dynamic pointers
US	N 017191	B	10/738555	16-Dec-03	2003-0131332-A1	16-Oct-07	7283723	12-Nov-19	One pass recording, dynamic pointers
US	N 017380	-	09/534219	24-Mar-00		28-Sep-04	6798978	24-Mar-20	Controlled one-pass VBR MPEG
US	N 017380	A	10/881229	30-Jun-04	2005-0053363-A1	15-Apr-08	7362959	15-Apr-25	Controlled one-pass VBR MPEG
US	N 017516	-	09/763442	21-Jun-00		18-Aug-09	7577341	19-Dec-22	Order of Titles
US	N 017516	A	12/403822	13-Mar-09	2009-0180757-A1			19-Dec-22	Order of Titles
US	N 017517	-	09/763301	23-Jun-00		15-Nov-05	6965729	15-Sep-22	Numbering of video objects and cells
US	N 017517	A	11/244681	06-Oct-05	2006-0039683-A1			23-Jun-20	Numbering of video objects and cells
US	N 017518	-	09/763440	23-Jun-00		27-Feb-07	7184648	23-Jun-20	Incomplete streams
US	N 017522	-	09/763439	23-Jun-00		18-Oct-05	6957009	17-Feb-23	Data allocation in DVD recording
US	N 017522	B	11/233124	22-Sep-05	2006-0093334-A1	20-May-08	7376340	20-May-25	Data allocation in DVD recording

(1) Relevant only to DVD-Video Players having digital audio output, such as for example SPDIF

Essential PH patents relevant to DVD+RW +R Recorder / DVD +RW Video 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>
VN	B 033973 -	S19960234	30-Sep-96		02-Nov-00	1559	30-Sep-11	Subtitle runlength compression
VN	N 015603 -	S19970704	21-Nov-96		25-Oct-02	3007	21-Nov-16	Multi channel interface via IEC 958 (1)
VN	N 017191 -	S20000662	05-Nov-99		04-Dec-03	3970	05-Nov-19	One pass recording, dynamic pointers
ZA	B 033973 -	96-0754	31-Jan-96		26-Nov-97	96-0754	31-Jan-16	Subtitle runlength compression
ZA	N 017191 -	003527	05-Nov-99		28-Nov-01	2000/3527	05-Nov-19	One pass recording, dynamic pointers

(1) Relevant only to DVD-Video Players having digital audio output, such as for example SPDIF