

## Exhibit E5 to the DVD+RW/+R Recorder Patent License Agreement

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

<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 013241 -	317015	04-Jun-90		11-Oct-96	250211	11-Oct-11	Non-Asserted Patent	Universal subband coder format
AR	N 015678 -	P970100444	05-Feb-97		17-Oct-05	AR006969	05-Feb-17		7-channel backwards compatible encoding
AR	Q 089018 -	317016	04-Jun-90		30-Mar-94	246135	30-Mar-09	Non-Asserted Patent	Digital transmission using subband coding
AT	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	E114862	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	E211329	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	E206253	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	E192885	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	E206254	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	E262210	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 013241 F	99202037.0	29-May-90		25-Oct-06	E343873	29-May-10	Non-Asserted Patent	Universal subband coder format
AT	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	E206859	21-Nov-16		Multichannel interface via IEC 958
AT	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	E263458	24-Jan-17		7-channel backwards compatible encoding
AT-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
AU	N 013241 -	90-56159	31-May-90	90-56159 641654	25-Jan-94	641654	31-May-10	Non-Asserted Patent	Universal subband coder format
AU	Q 089018 -	90-56158	31-May-90	634237	11-Jun-93	634237	31-May-10	Non-Asserted Patent	Digital transmission using subband coding
BA	N 013241 -	BAP97269A	31-May-90		13-Oct-04	BAP97269A	31-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
BE	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
BE-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format

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

<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>
BR	N 013241 -	PI9002617.9	01-Jun-90	PI9002617	25-Jul-95	PI9002617	01-Jun-10	Non-Asserted Patent	Universal subband coder format
BR	N 015678 -	PI9702067.2	24-Jan-97	PI9702067.2			24-Jan-17		7-channel backwards compatible encoding
BR	Q 089018 -	PI9002618.7	01-Jun-90	PI9002618	25-Jul-95	PI9002618	30-Jun-10	Non-Asserted Patent	Digital transmission using subband coding
CA	N 013241 -	2017935	30-May-90		22-Oct-02	2017935	30-May-10	Non-Asserted Patent	Universal subband coder format
CA	N 013241 A	2363045	30-May-90		16-Nov-04	2363045	30-May-10	Non-Asserted Patent	Universal subband coder format
CA	N 013241 B	2475414	30-May-90				30-May-10	Non-Asserted Patent	Universal subband coder format
CA	Q 089018 -	2017841	30-May-90		18-Apr-00	2017841	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
CH	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
CH	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
CH-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
CN	N 013241 -	90103226.3	30-May-90	1048473-A	15-Oct-95	90103226.3	30-May-10	Non-Asserted Patent	Universal subband coder format
CN	N 013241 A	94103143.8	30-May-90	1096619-A			30-May-10	Non-Asserted Patent	Universal subband coder format
CN	N 013241 B	94103142.X	30-May-90	1096618-A	12-May-04	94103142.X	30-May-10	Non-Asserted Patent	Universal subband coder format
CN	N 015603 -	96192855.7	21-Nov-96	1179870-A	18-May-05	96192855.7	21-Nov-16		Multichannel interface via IEC 958
CN	N 015678 -	97190310.7	24-Jan-97	1188571-A	11-Aug-04	97190310.7	24-Jan-17		7-channel backwards compatible encoding
CN	N 015787 -	97190318.2	31-Jan-97	1188572-A	04-Feb-04	97190318.2	31-Jan-17		N channel compatible with 2- and 1- channel
CN	N 015808 -	97190633.5	02-Apr-97	1194737-A	01-Jun-05	97190633.5	02-Apr-17		Selection of masked thresholds
CN	Q 089018 -	90103390.1	30-May-90	1050116-A	10-Oct-93	90103390.1	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
CZ	N 013241 -	90-PV2678	30-May-90		10-Mar-98	283598	30-May-10	Non-Asserted Patent	Universal subband coder format
CZ	N 015678 -	97-PV3154	24-Jan-97		02-Dec-03	293070	24-Jan-17		7-channel backwards compatible encoding
CZ	Q 089018 -	90-PV2677	30-May-90		17-Mar-93	277633	30-May-10	Non-Asserted Patent	Digital transmission using subband coding

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

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DE	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	69014422.9	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	69033882.1	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	69033811.2	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	69033543.1	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	69033813.9	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	69034132.6	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 013241 F	99202037.0	29-May-90	0949763-A3	25-Oct-06	69034231.4	29-May-10	Non-Asserted Patent	Universal subband coder format
DE	N 014361 -	94200087.8	14-Jan-94	0608930-A1	14-Jun-00	69424888.6	14-Jan-14		Three channel transmission of L, R and C
DE	N 014615 -	94928505.0	18-Oct-94	0678226-A1	14-May-03	69432663.1	18-Oct-14		SB splitting prior to multiplexing L, R, C
DE	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	69615826.4	21-Nov-16		Multichannel interface via IEC 958
DE	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	69728330.5	24-Jan-17		7-channel backwards compatible encoding
DE	N 015760 -	97908427.4	01-Apr-97	0853842-A1	09-Jul-03	69723412.6	01-Apr-17		Multi channel encoding
DE	N 015787 -	97900704.4	31-Jan-97		09-Nov-05	69734543.2	31-Jan-17		N channel compatible with 2- and 1- channel
DE	N 015808 -	97908434.0	02-Apr-97	0832519-A1	29-Jan-03	69718735.7	02-Apr-17		Selection of masked thresholds
DE	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	69022119.3	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
DE-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
DK	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
DK-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format

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

<i>COUNTRY</i>	<i>PH 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>
ES	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
ES	N 014361 -	94200087.8	14-Jan-94	0608930-A1	14-Jun-00	0608930	14-Jan-14		Three channel transmission of L, R and C
ES	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
ES	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	2077631	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
ES-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
FI	Q 089018 -	902695	30-May-90		31-Dec-02	110349	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
FR	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
FR	N 014361 -	94200087.8	14-Jan-94	0608930-A1	14-Jun-00	0608930	14-Jan-14		Three channel transmission of L, R and C
FR	N 014615 -	94928505.0	18-Oct-94	0678226-A1	14-May-03	0678226	18-Oct-14		SB splitting prior to multiplexing L, R, C
FR	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	0811295	21-Nov-16		Multichannel interface via IEC 958
FR	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
FR	N 015760 -	97908427.4	01-Apr-97	0853842-A1	09-Jul-03	0853842	01-Apr-17		Multi channel encoding
FR	N 015787 -	97900704.4	31-Jan-97		09-Nov-05	0820664	31-Jan-17		N channel compatible with 2- and 1- channel
FR	N 015808 -	97908434.0	02-Apr-97	0832519-A1	29-Jan-03	0832519	02-Apr-17		Selection of masked thresholds
FR	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
FR-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format

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

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GB	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
GB	N 014361 -	94200087.8	14-Jan-94	0608930-A1	14-Jun-00	0608930	14-Jan-14		Three channel transmission of L, R and C
GB	N 014615 -	94928505.0	18-Oct-94	0678226-A1	14-May-03	0678226	18-Oct-14		SB splitting prior to multiplexing L, R, C
GB	N 015603 -	96935295.4	21-Nov-96	0811295-A1	10-Oct-01	0811295	21-Nov-16		Multichannel interface via IEC 958
GB	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
GB	N 015760 -	97908427.4	01-Apr-97	0853842-A1	09-Jul-03	0853842	01-Apr-17		Multi channel encoding
GB	N 015787 -	97900704.4	31-Jan-97		09-Nov-05	0820664	31-Jan-17		N channel compatible with 2- and 1- channel
GB	N 015808 -	97908434.0	02-Apr-97	0832519-A1	29-Jan-03	0832519	02-Apr-17		Selection of masked thresholds
GB	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
GB-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 013241 F	99202037.0	29-May-90		25-Oct-06	3060607	29-May-10	Non-Asserted Patent	Universal subband coder format
GR	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
GR-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
HK	N 013241 -	NOT GIVEN	29-May-90		07-Mar-96	0960416	29-May-10	Non-Asserted Patent	Universal subband coder format
HK	N 013241 A	98113036.2	29-May-90	1012112-A 1012112-E23	Aug-02	HK1012112	28-May-10	Non-Asserted Patent	Universal subband coder format
HK	N 013241 B	98113037.1	29-May-90	1012113-A 1012113-B3	May-02	HK1012113	28-May-10	Non-Asserted Patent	Universal subband coder format
HK	N 013241 C	98114929.0	29-May-90	1013743-A 1013743-A24	Nov-00	HK1013743	28-May-10	Non-Asserted Patent	Universal subband coder format

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

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HK	N 013241	D	98114934.3	29-May-90	1013744-A	1013744-B	0-May-02	HK1013744	28-May-10	Non-Asserted Patent	Universal subband coder format
HK	N 013241	E	06104399.3	29-May-90	1082852-A	1082852-A				Non-Asserted Patent	Universal subband coder format
HK	Q 089018	-	NOT GIVEN	30-May-90			05-Dec-96	0962134	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
HU	N 013241	-	90-3284	31-May-90			26-Aug-95	210644	31-May-10	Non-Asserted Patent	Universal subband coder format
HU	N 015603	-	P9801262	21-Nov-96	9801262				21-Nov-16		Multichannel interface via IEC 958
HU	Q 089018	-	90-3285	31-May-90			12-Aug-92	206572	31-May-10	Non-Asserted Patent	Digital transmission using subband coding
ID	N 015678	-	P-970352	05-Feb-97	015.887A		23-Dec-04	ID0014909	05-Feb-11		7-channel backwards compatible encoding
IE	N 015678	-	97900395.1	24-Jan-97	0820663-A1		31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
IL	N 015678	-	121810	24-Jan-97			14-Nov-00	121810	24-Jan-17		7-channel backwards compatible encoding
IN	N 013241	-	438/Cal/90	28-May-90	175971		12-Sep-97	175971	28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 013241	A	217/Cal/95	28-May-90			03-Sep-04	192221	28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 013241	B	218/Cal/95	28-May-90			03-Sep-04	192222	28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 013241	E	577/CAL/2002	28-May-90					28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 013241	F	715/Cal/2002	28-May-90					28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 013241	G	570/kol/2003	28-May-90					28-May-10	Non-Asserted Patent	Universal subband coder format
IN	N 015678	-	189/Cal/97	03-Feb-97			17-Sep-04	192313	03-Feb-17		7-channel backwards compatible encoding
IN	Q 089018	-	439/Cal/90	28-May-90			12-Jul-96	176073	28-May-10	Non-Asserted Patent	Digital transmission using subband coding
IT	N 013241	-	90201356.4	29-May-90	0402973-A1		30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	A	94200239.5	29-May-90	0599824-A3		19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	B	94200240.3	29-May-90	0599825-A3		26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	C	95200565.0	29-May-90	0660540-A3		10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	D	96200046.9	29-May-90	0708533-A3		26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	E	96201857.8	29-May-90	0751520-A3		17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 013241	F	99202037.0	29-May-90			25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
IT	N 014361	-	94200087.8	14-Jan-94	0608930-A1		14-Jun-00	0608930	14-Jan-14		Three channel transmission of L, R and C
IT	N 015603	-	96935295.4	21-Nov-96	0811295-A1		10-Oct-01	0811295	21-Nov-16		Multichannel interface via IEC 958
IT	N 015678	-	97900395.1	24-Jan-97	0820663-A1		31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding

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

<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>		
IT	N 015760	-	97908427.4	01-Apr-97	0853842-A1	09-Jul-03	0853842	01-Apr-17	Multi channel encoding	
IT	Q 089018	-	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
IT-EP	N 013241	G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
JP	N 013241	-	90-141693	01-Jun-90	91-24834	17-Dec-99	3012849	01-Jun-10	Non-Asserted Patent	Universal subband coder format
JP	N 014361	-	94-022092	21-Jan-94	94-318922	03-Sep-04	3592356	21-Jan-14		Three channel transmission of L, R and C
JP	N 014615	-	95-512501	18-Oct-94		03-Aug-07	3993229	18-Oct-14		SB splitting prior to multiplexing L, R, C
JP	N 015603	-	97-521104	21-Nov-96	99-500564	20-Jul-07	3986084	21-Nov-16		Multichannel interface via IEC 958
JP	N 015603	A	06-339470	21-Nov-96	07-109397	13-Jul-07	3983268	21-Nov-16		Multichannel interface via IEC 958
JP	N 015678	-	97-528329	24-Jan-97		07-Apr-06	3790550	24-Jan-17		7-channel backwards compatible encoding
JP	N 015760	-	97-536001	01-Apr-97	99-508110	15-Sep-06	3854313	01-Apr-17		Multi channel encoding
JP	N 015787	-	97-528333	31-Jan-97	99-503897	14-Apr-06	3793235	31-Jan-17		N channel compatible with 2- and 1- channel
JP	N 015808	-	97-536003	02-Apr-97	02-515204	27-Apr-07	3948752	02-Apr-17		Selection of masked thresholds
JP	Q 089018	-	90-143303	02-Jun-90	91-82233	26-May-00	3069611	02-Jun-10	Non-Asserted Patent	Digital transmission using subband coding
KR	N 013241	-	90-8138	02-Jun-90		10-Jun-98	149862	10-Jun-13	Non-Asserted Patent	Universal subband coder format
KR	N 014361	-	10-1994-000109721	Jan-94		22-Mar-02	331368	21-Jan-14		Three channel transmission of L, R and C
KR	N 014615	-	95-702727	18-Oct-94		04-Jan-02	321015	18-Oct-14		SB splitting prior to multiplexing L, R, C
KR	N 015516	-	97-704429	18-Oct-96	10-1998-0701162	16-Dec-04	0463462	18-Oct-16		Repeated coding/decoding with variable delay
KR	N 015603	-	10-1997-070542121	Nov-96	98-0702026	02-Dec-04	0461211	21-Nov-16		Multichannel interface via IEC 958
KR	N 015678	-	97-707116	24-Jan-97	10-1998-0703716	04-Mar-04	0423173	24-Jan-17		7-channel backwards compatible encoding
KR	N 015760	-	97-709172	01-Apr-97	99-22730	2005-0472452	0472402	01-Apr-17		Multi channel encoding
KR	N 015808	-	97-709253	02-Apr-97		07-Oct-05	0521663	02-Apr-17		Selection of masked thresholds
KR	Q 089018	-	90-8139	02-Jun-90		07-Dec-98	181292	02-Jun-10	Non-Asserted Patent	Digital transmission using subband coding
LU	N 013241	-	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent	Universal subband coder format
LU	N 013241	A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent	Universal subband coder format
LU	N 013241	B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
LU	N 013241	C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
LU	N 013241	D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format

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

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LU	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent Universal subband coder format
LU	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent Universal subband coder format
LU-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent Universal subband coder format
MO	Q 089018 -	14009 M	31-May-90		02-Apr-98	94224	31-May-10	Non-Asserted Patent Digital transmission using subband coding
MX	N 013241 -	20972	01-Jun-90		17-Dec-93	172513	01-Jun-10	Non-Asserted Patent Universal subband coder format
MX	Q 089018 -	20973	01-Jun-90		17-Dec-93	172514	01-Jun-10	Non-Asserted Patent Digital transmission using subband coding
MY	N 013241 -	PI9000923	02-Jun-90		30-Jan-95	105780	30-Jan-10	Non-Asserted Patent Universal subband coder format
MY	N 015678 -	PI9700482	06-Feb-97		30-Jun-06	123845	30-Jun-21	7-channel backwards compatible encoding
MY	Q 089018 -	PI9000919	01-Jun-90		30-Jan-95	105781	30-Jan-10	Non-Asserted Patent Digital transmission using subband coding
NL	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 013241 F	99202037.0	29-May-90	0949763	25-Oct-06	0949763	29-May-10	Non-Asserted Patent Universal subband coder format
NL	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
NL-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent Universal subband coder format
PL	N 013241 -	P285437	01-Jun-90	285437	02-Mar-95	167271	01-Jun-10	Non-Asserted Patent Universal subband coder format
PL	N 015603 -	P321707	21-Nov-96		03-Jul-01	182469	21-Nov-16	Multichannel interface via IEC 958
PL	N 015603 A	P347873	21-Nov-96		18-Oct-02	183167	21-Nov-16	Multichannel interface via IEC 958
PL	Q 089018 -	P285436	01-Jun-90		30-Nov-94	165159	01-Jun-10	Non-Asserted Patent Digital transmission using subband coding
PT	Q 089018 -	94224	31-May-90	12-1991	02-Apr-98	94224	31-May-10	Non-Asserted Patent Digital transmission using subband coding
RU	N 013241 -	4830112	29-May-90				29-May-10	Non-Asserted Patent Universal subband coder format
RU	Q 089018 -	4830377	30-May-90		10-Feb-00	2145464	30-May-10	Non-Asserted Patent Digital transmission using subband coding
SE	N 013241 -	90201356.4	29-May-90	0402973-A1	30-Nov-94	0402973	29-May-10	Non-Asserted Patent Universal subband coder format
SE	N 013241 A	94200239.5	29-May-90	0599824-A3	19-Dec-01	0599824	29-May-10	Non-Asserted Patent Universal subband coder format



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SE	N 013241 B	94200240.3	29-May-90	0599825-A3	26-Sep-01	0599825	29-May-10	Non-Asserted Patent	Universal subband coder format
SE	N 013241 C	95200565.0	29-May-90	0660540-A3	10-May-00	0660540	29-May-10	Non-Asserted Patent	Universal subband coder format
SE	N 013241 D	96200046.9	29-May-90	0708533-A3	26-Sep-01	0708533	29-May-10	Non-Asserted Patent	Universal subband coder format
SE	N 013241 E	96201857.8	29-May-90	0751520-A3	17-Mar-04	0751520	29-May-10	Non-Asserted Patent	Universal subband coder format
SE	N 013241 F	99202037.0	29-May-90		25-Oct-06	0949763	29-May-10	Non-Asserted Patent	Universal subband coder format
SE	N 014361 -	94200087.8	14-Jan-94	0608930-A1	14-Jun-00	0608930	14-Jan-14		Three channel transmission of L, R and C
SE	N 014615 -	94928505.0	18-Oct-94	0678226-A1	14-May-03	0678226	18-Oct-14		SB splitting prior to multiplexing L, R, C
SE	Q 089018 -	90201369.7	30-May-90	0400755-A1	06-Sep-95	0400755	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
SE-EP	N 013241 G	05103587.1	29-May-90	1587219-A2			29-May-10	Non-Asserted Patent	Universal subband coder format
SG	N 013241 -	9690189.7	29-May-90		15-Jun-96	28659	29-May-10	Non-Asserted Patent	Universal subband coder format
SG	N 013241 A	9607808.4	29-May-90		04-Jan-02	44803	29-May-10	Non-Asserted Patent	Universal subband coder format
SG	N 013241 B	9604520.8	29-May-90	0046416			29-May-10	Non-Asserted Patent	Universal subband coder format
SG	N 014615 -	9609639.1	18-Oct-94	0044933	20-Feb-01	44933	18-Oct-14		SB splitting prior to multiplexing L, R, C
SG	N 015678 -	9705093.4	24-Jan-97		16-Nov-99	46116	24-Jan-17		7-channel backwards compatible encoding
SG	N 015760 -	9705261.7	01-Apr-97		18-Apr-00	47256	01-Apr-17		Multi channel encoding
SG	N 015808 -	9705475.3	02-Apr-97		29-Oct-04	48673	02-Apr-17		Selection of masked thresholds
SG	Q 089018 -	9692050.9	30-May-90		15-Nov-96	33976	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
SI	N 013241 -	9011071	21-Feb-94		23-Aug-96	9011071	31-May-10	Non-Asserted Patent	Universal subband coder format
SI	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17		7-channel backwards compatible encoding
SK	N 013241 -	90-PV2678	30-May-90		29-Dec-99	280559	30-May-10	Non-Asserted Patent	Universal subband coder format
SK	Q 089018 -	90-PV2677	30-May-90		17-Mar-93	277633	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
TR	N 015678 -	97-01134	24-Jan-97		21-Mar-02	TR19970113	24-Jan-17		7-channel backwards compatible encoding
TW	N 013241 -	79104265	25-May-90		13-Jun-91	45033	25-May-10	Non-Asserted Patent	Universal subband coder format
TW	N 015760 -	86104273	03-Apr-97	359933	04-Oct-99	103527	03-Apr-17		Multi channel encoding
TW	Q 089018 -	79104291	26-May-90		12-Sep-91	NI-47459	26-May-10	Non-Asserted Patent	Digital transmission using subband coding
UA	N 013241 -	93004526	29-May-90		15-Jan-03	52573	29-May-10	Non-Asserted Patent	Universal subband coder format
UA	N 013241 A	2002054163	29-May-90		15-Aug-05	73532	29-May-10	Non-Asserted Patent	Universal subband coder format

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UA	Q 089018 -	93003366	30-May-90		15-May-01	37174	30-May-10	Non-Asserted Patent	Digital transmission using subband coding
US	N 013241 A	07/997158	21-Dec-92		21-Jun-94	5323396	21-Jun-11	Non-Asserted Patent	Universal subband coder format
US	N 013241 E	08/488318	07-Jun-95		23-Jul-96	5539829	23-Jul-13	Non-Asserted Patent	Universal subband coder format
US	N 013241 G	08/483009	06-Jun-95		25-Jun-96	5530655	25-Jun-13	Non-Asserted Patent	Universal subband coder format
US	N 013241 H	09/521052	08-Mar-00		11-Sep-01	6289308	01-Jun-10	Non-Asserted Patent	Universal subband coder format
US	N 013241 I	09/908932	19-Jul-01	2001-0044713-A1	10-Feb-04	6691086	05-Jun-11	Non-Asserted Patent	Universal subband coder format
US	N 013241 J	10/745215	23-Dec-03		24-Apr-07	7209565	01-Jun-10	Non-Asserted Patent	Universal subband coder format
US	N 013241 K	11/007377	08-Dec-04	2006-0206341-A1			01-Jun-10	Non-Asserted Patent	Universal subband coder format
US	N 014361 -	08/184323	21-Jan-94		11-Mar-97	5610985	21-Jan-14		Three channel transmission of L, R and C
US	N 014615 -	08/328999	25-Oct-94		06-Aug-96	5544247	25-Oct-14		SB splitting prior to multiplexing L, R, C
US	N 014615 A	08/651016	21-May-96		06-Oct-98	5818943	25-Oct-14		SB splitting prior to multiplexing L, R, C
US	N 015516 A	10/134913	29-Apr-02	2002-0118764-A1	05-Oct-04	6801578	24-Oct-16		Repeated coding/decoding with variable delay
US	N 015603 -	08/798198	09-Dec-96		13-Jun-00	6076062	09-Dec-16		Multichannel interface via IEC 958
US	N 015603 R	10/170822	13-Jun-02				09-Dec-19		Multichannel interface via IEC 958
US	N 015678 -	08/795820	06-Feb-97		15-Dec-98	5850456	06-Feb-17		7-channel backwards compatible encoding
US	N 015760 -	08/826916	09-Apr-97		28-Sep-99	5960037	09-Apr-17		Multi channel encoding
US	N 015787 -	08/795120	07-Feb-97		02-Mar-99	5878080	07-Feb-17		N channel compatible with 2- and 1- channel
US	N 015808 -	08/826919	09-Apr-97		08-Feb-00	6023490	09-Apr-17		Selection of masked thresholds
US	Q 089018 -	07/532465	31-May-90		25-May-93	5214678	31-May-10	Non-Asserted Patent	Digital transmission using subband coding
VE	N 015678 -	97-228	07-Feb-97	BUL.NO.428	28-Sep-00	58215	07-Feb-17		7-channel backwards compatible encoding
VN	N 015603 -	S19970704	21-Nov-96		25-Oct-02	3007	21-Nov-16		Multichannel interface via IEC 958
VN	N 015678 -	S19970913	07-Oct-97		20-Apr-01	2012	07-Oct-17		7-channel backwards compatible encoding
YU	N 013241 -	P-901071	31-May-90	90-P1071	16-Dec-96	48202	31-May-10	Non-Asserted Patent	Universal subband coder format