

## Annex A to the MPEG Audio Patent License Agreement

Essential Philips, France Telecom and IRT Patents relevant to DVD-Video Disc - MPEG Audio - general

<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	Universal subband coder format
AT	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	117.476	27-Jun-11	Subband coded audio signals using scale factors
AT	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	115.793	21-Jul-12	Digitized, blockcoded audio signals
AU	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	25-Aug-94	652.476	21-Jul-12	Digitized, blockcoded audio signals
DE	IRT-1 -	WO 91-01211	27-Jun-91	EP 0.568.532	18-Jan-95	59.104.347	27-Jun-11	Subband coded audio signals using scale factors
DE	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	17-Jun-92	4.102.324	27-Jun-11	Subband coded audio signals using scale factors
DE	IRT-2 -	WO 92-01658	21-Jul-92	EP 0.595.944	14-Dec-94	59.200.994	21-Jul-12	Digitized, blockcoded audio signals
DE	IRT-4 -	DE 42.29.372	03-Sep-92	42.29.372	03-Jul-97	42.29.372	03-Sep-12	Bitrate allocation/bitrate reduced coding
DK	IRT-1 -	WO 91-01211	27-Jun-91	EP 0.568.532	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
DK	IRT-2 -	WO 92-01658	21-Jul-92	EP 0.595.944	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals
ES	IRT-1 -	WO 91-01211	27-Jun-91	EP 0.568.532	18-Jan-95	2.067.237	27-Jun-11	Subband coded audio signals using scale factors
ES	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	2.067.336	21-Jul-12	Digitized, blockcoded audio signals
FI	IRT-1 -	WO 91-01211	27-Jun-91	FI 933324	30-Jun-00	105.248	27-Jun-11	Subband coded audio signals using scale factors
FR	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
FR	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals
GB	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
GB	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals
IT	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
IT	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals
JP	IRT-1 -	WO 91-01211	27-Jun-91	JP 7.503.342	09-Apr-97	2.599.660	27-Jun-11	Subband coded audio signals using scale factors
JP	IRT-2 -	WO 92-01658	21-Jul-92	JP 6504893	09-Apr-97	2.599.688	21-Jul-12	Digitized, blockcoded audio signals
KR	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	12-Sep-96	9.612.085	27-Jun-11	Subband coded audio signals using scale factors
KR	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	01-Feb-00	242.893	21-Jul-12	Digitized, blockcoded audio signals
NL	IRT-1 -	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
NL	IRT-2 -	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals

*(1) relevant only if joint coding is used*

Essential Philips, France Telecom and IRT Patents relevant to DVD-Video Disc - MPEG Audio - general

<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>	
SE	IRT-1	-	WO 91-01211	27-Jun-91	WO 92.13396	18-Jan-95	0.568.532	27-Jun-11	Subband coded audio signals using scale factors
SE	IRT-2	-	WO 92-01658	21-Jul-92	WO 93.02508	14-Dec-94	0.595.944	21-Jul-12	Digitized, blockcoded audio signals
US	N 013241	A	07/997158	21-Dec-92		21-Jun-94	5323396	24-Jun-11	Universal subband coder format
US	N 013241	E	08/488318	07-Jun-95		23-Jul-96	5539829	23-Jul-13	Universal subband coder format (1)
US	N 013241	G	08/483009	06-Jun-95		25-Jun-96	5530655	25-Jun-13	Universal subband coder format (1)
US	N 013241	I	09/908932	19-Jul-01	2001-0044713-A1	10-Feb-04	6691086	05-Jun-11	Universal subband coder format (1)
US	N 013241	K	11/007377	08-Dec-04	2006-0206341-A1	21-Jul-09	7565298	30-Mar-11	Universal subband coder format (1)

*(1) relevant only if joint coding is used*

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Essential Philips, France Telecom and IRT Patents relevant to DVD-Video Disc - MPEG Audio - patents relevant if centre channel is coded

<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>
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
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 015787 -	97900704.4	31-Jan-97		09-Nov-05	69734543.2	31-Jan-17	N channel compatible with 2- and 1- channel
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
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 015787 -	97900704.4	31-Jan-97		09-Nov-05	0820664	31-Jan-17	N channel compatible with 2- and 1- channel
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 015787 -	97900704.4	31-Jan-97		09-Nov-05	0820664	31-Jan-17	N channel compatible with 2- and 1- channel
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
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 015787 -	97-528333	31-Jan-97	99-503897	14-Apr-06	3793235	31-Jan-17	N channel compatible with 2- and 1- channel
KR	N 014361 -	10-1994-000109721	21-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
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
SG	N 014615 -	9609639.1	18-Oct-94	0044933	20-Feb-01	44933	18-Oct-14	SB splitting prior to multiplexing L, R, C
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 015787 -	08/795120	07-Feb-97		02-Mar-99	5878080	07-Feb-17	N channel compatible with 2- and 1- channel

## Annex A to the MPEG Audio Patent License Agreement

Essential Philips, France Telecom and IRT Patents relevant to DVD-Video Disc - MPEG Audio - patents relevant if 5 or more channels are coded

<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 015678 -	P970100444	05-Feb-97		17-Oct-05	AR006969	05-Feb-17	7-channel backwards compatible encoding
AT	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	E263458	24-Jan-17	7-channel backwards compatible encoding
BE	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
BR	N 015678 -	PI9702067.2	24-Jan-97	PI9702067.2	25-Feb-09	PI9702067.2	24-Jan-17	7-channel backwards compatible encoding
CN	N 015678 -	97190310.7	24-Jan-97	1188571-A	11-Aug-04	97190310.7	24-Jan-17	7-channel backwards compatible encoding
CZ	N 015678 -	97-PV3154	24-Jan-97		02-Dec-03	293070	24-Jan-17	7-channel backwards compatible encoding
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
ES	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
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
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
GR	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
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 015678 -	189/Cal/97	03-Feb-97		17-Sep-04	192313	03-Feb-17	7-channel backwards compatible encoding
IT	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
IT	N 015760 -	97908427.4	01-Apr-97	0853842-A1	09-Jul-03	0853842	01-Apr-17	Multi channel encoding
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
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 2005-0472402	05-Feb-05	0472402	01-Apr-17	Multi channel encoding
MY	N 015678 -	PI9700482	06-Feb-97		30-Jun-06	123845	30-Jun-21	7-channel backwards compatible encoding

Essential Philips, France Telecom and IRT Patents relevant to DVD-Video Disc - MPEG Audio - patents relevant if 5 or more channels are coded

<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>
NL	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
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
SI	N 015678 -	97900395.1	24-Jan-97	0820663-A1	31-Mar-04	0820663	24-Jan-17	7-channel backwards compatible encoding
TR	N 015678 -	97-01134	24-Jan-97		21-Mar-02	TR199701134	24-Jan-17	7-channel backwards compatible encoding
TW	N 015760 -	86104273	03-Apr-97	359933	04-Oct-99	103527	03-Apr-17	Multi channel encoding
US	N 015678 -	08/795820	06-Feb-97		15-Dec-98	5850456	06-Feb-17	7-channel backwards compatible encoding
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 015678 -	S19970913	07-Oct-97		20-Apr-01	2012	07-Oct-17	7-channel backwards compatible encoding