

Part of Exhibit E1 + E2 to the DVD-Audio Disc Patent License Agreement

Essential Pioneer Patents relevant to DVD-Audio Disc / DVD-Audio 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>
CN	504102CN02	200610093817.3	20-jun-2006		ZL200610093817.3	05-dec-2016	Digital data transmitting
CN	504102CN03	200610093831.3	20-jun-2006		ZL200610093831.3	05-dec-2016	Digital data transmitting
CN	504102CN04	200610093830.9	20-jun-2006		ZL200610093830.9	05-dec-2016	Digital data transmitting
DE-EP	504102EP02	03025667.1	07-nov-2003	1403869	69636916.8	05-dec-2016	Digital data transmitting
DE-EP	504102EP04	06115016.5	06-jun-2006		69638178.8	05-dec-2016	Digital data transmitting
DE-EP	504102EP05	06115021.5	06-jun-2006		69638200.8	05-dec-2016	Digital data transmitting
DE-EP	504165EP01	97301817.9	18-mrt-1997		69716154.4	18-mrt-2017	Still picture playback control
DE-EP	504175EP01	97301858.3	19-mrt-1997		69715495.5	19-mrt-2017	Text information
DE-EP	504175EP02	02009368.8	06-mei-2002	1229539	69739488.3	19-mrt-2017	Text information
DE-EP	504188EP01	97301337.8	27-feb-1997		69739836.6	27-feb-2017	Minimum readout rate
DE-EP	524095EP01	98306439.5	12-aug-1998	0897178	69833162.1	12-aug-2018	Structure of Simple Audio Manager
DE-EP	524095EP02	05024279.1	08-nov-2005	1628307	69842632	12-aug-2018	Structure of Simple Audio Manager
DE-EP	524096EP01	99302789.5	09-apr-1999		69933967.7	09-apr-2019	Audio Title Set Information
DE-EP	524096EP02	01109409.1	20-apr-2001		69931959	09-apr-2019	Audio Title Set Information
DE-EP	524097EP01	98309770.0	30-nov-1998	2005-0183016	69837375.8	30-nov-2018	Audio Title Set Information
DE-EP	524098EP01	99302788.7	09-apr-1999		69929566.1	09-apr-2019	Audio Title Set Information
DE-EP	524098EP02	01104455.9	28-feb-2001		69926899	09-apr-2019	Audio Title Set Information
DE-EP	524185EP01	99301766.4	09-mrt-1999		69933961.8	09-mrt-2019	Audio Manager Information
DE-EP	524209EP01	99302604.6	01-apr-1999	0949622	69934537.5	01-apr-2019	Structure of Simple Audio Manager
DE-EP	524209EP02	06123357.3	02-nov-2006		69944379.2	01-apr-2019	Structure of Simple Audio Manager
DE-EP	534159EP01	99309428.3	25-nov-1999		69943849	25-nov-2019	Audio packet for Packed PCM
DE-EP	534160EP01	99309371.5	24-nov-1999		69944539.6	24-nov-2019	Audio packet for Packed PCM
FR-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting
FR-EP	504102EP04	06115016.5	06-jun-2006		01715485	05-dec-2016	Digital data transmitting
FR-EP	504102EP05	06115021.5	06-jun-2006		01715486	05-dec-2016	Digital data transmitting
FR-EP	504165EP01	97301817.9	18-mrt-1997		00797201	18-mrt-2017	Still picture playback control
FR-EP	504175EP01	97301858.3	19-mrt-1997		00798723	19-mrt-2017	Text information

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FR-EP	504175EP02	02009368.8	06-mei-2002	1229539	01229539	19-mrt-2017	Text information
FR-EP	504188EP01	97301337.8	27-feb-1997		00793233	27-feb-2017	Minimum readout rate
FR-EP	524095EP01	98306439.5	12-aug-1998	0897178	00897178	12-aug-2018	Structure of Simple Audio Manager
FR-EP	524095EP02	05024279.1	08-nov-2005	1628307	01628307	12-aug-2018	Structure of Simple Audio Manager
FR-EP	524096EP01	99302789.5	09-apr-1999		00949618	09-apr-2019	Audio Title Set Information
FR-EP	524096EP02	01109409.1	20-apr-2001		01143441	09-apr-2019	Audio Title Set Information
FR-EP	524097EP01	98309770.0	30-nov-1998	2005-0183016	00920006	30-nov-2018	Audio Title Set Information
FR-EP	524098EP01	99302788.7	09-apr-1999		00952578	09-apr-2019	Audio Title Set Information
FR-EP	524098EP02	01104455.9	28-feb-2001		01104928	09-apr-2019	Audio Title Set Information
FR-EP	524185EP01	99301766.4	09-mrt-1999		00944087	09-mrt-2019	Audio Manager Information
FR-EP	524209EP01	99302604.6	01-apr-1999	0949622	00949622	01-apr-2019	Structure of Simple Audio Manager
FR-EP	524209EP02	06123357.3	02-nov-2006		01748441	01-apr-2019	Structure of Simple Audio Manager
FR-EP	534159EP01	99309428.3	25-nov-1999		01005041	25-nov-2019	Audio packet for Packed PCM
FR-EP	534160EP01	99309371.5	24-nov-1999		01005044	24-nov-2019	Audio packet for Packed PCM
GB-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting
GB-EP	504102EP04	06115016.5	06-jun-2006		01715485	05-dec-2016	Digital data transmitting
GB-EP	504102EP05	06115021.5	06-jun-2006		01715486	05-dec-2016	Digital data transmitting
GB-EP	504165EP01	97301817.9	18-mrt-1997		00797201	18-mrt-2017	Still picture playback control
GB-EP	504175EP01	97301858.3	19-mrt-1997		00798723	19-mrt-2017	Text information
GB-EP	504175EP02	02009368.8	06-mei-2002	1229539	01229539	19-mrt-2017	Text information
GB-EP	504188EP01	97301337.8	27-feb-1997		00793233	27-feb-2017	Minimum readout rate
GB-EP	524095EP01	98306439.5	12-aug-1998	0897178	00897178	12-aug-2018	Structure of Simple Audio Manager
GB-EP	524095EP02	05024279.1	08-nov-2005	1628307	01628307	12-aug-2018	Structure of Simple Audio Manager
GB-EP	524096EP01	99302789.5	09-apr-1999		00949618	09-apr-2019	Audio Title Set Information
GB-EP	524096EP02	01109409.1	20-apr-2001		01143441	09-apr-2019	Audio Title Set Information
GB-EP	524097EP01	98309770.0	30-nov-1998	2005-0183016	00920006	30-nov-2018	Audio Title Set Information
GB-EP	524098EP01	99302788.7	09-apr-1999		00952578	09-apr-2019	Audio Title Set Information
GB-EP	524098EP02	01104455.9	28-feb-2001		01104928	09-apr-2019	Audio Title Set Information

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GB-EP	524185EP01	99301766.4	09-mrt-1999		00944087	09-mrt-2019	Audio Manager Information
GB-EP	524209EP01	99302604.6	01-apr-1999	0949622	00949622	01-apr-2019	Structure of Simple Audio Manager
GB-EP	524209EP02	06123357.3	02-nov-2006		01748441	01-apr-2019	Structure of Simple Audio Manager
GB-EP	534159EP01	99309428.3	25-nov-1999		01005041	25-nov-2019	Audio packet for Packed PCM
GB-EP	534160EP01	99309371.5	24-nov-1999		01005044	24-nov-2019	Audio packet for Packed PCM
HK	504102HK02	04106418.7	26-aug-2004		1063685	05-dec-2016	Digital data transmitting
HK	504175HK01	03100507.3	21-jan-2003		1049402	19-mrt-2017	Text information
HK	524095HK01	06103299.6	14-mrt-2006		HK1085835	12-aug-2018	Structure of Simple Audio Manager
HK	524096HK01	00100449.7	19-jan-2001		1021770	09-apr-2019	Audio Title Set Information
HK	524098HK01	00100446.0	24-jan-2000		1021768	09-apr-2019	Audio Title Set Information
HK	524098HK02	01106110.1	29-aug-2001		1037267	09-apr-2019	Audio Title Set Information
HK	524185HK01	00100448.8	12-mrt-1999		1021769	09-mrt-2019	Audio Manager Information
HK	524209HK01	00101994.4	01-apr-1999		1024973	01-apr-2019	Structure of Simple Audio Manager
ID	504102ID01	P-963596	05-dec-1996		0005541	05-dec-2016	Digital data transmitting
IN	504102IN01	2183/MAS/1996	04-dec-1996		194873	04-dec-2016	Digital data transmitting
JP	504102JP01	1995316420	05-dec-1995	1997162857	03394127	05-dec-2015	Digital data transmitting
JP	504187JP01	1996061472	18-mrt-1996	1997251723	03969762	18-mrt-2016	24 bit data alignment
JP	504187JP02	2005351144	05-dec-2005	2006079828	04077005	18-mrt-2016	24 bit data alignment
JP	504188JP02	2001400061	28-dec-2001	2002237150	04112857	28-feb-2016	Minimum readout rate
JP	524095JP01	1997219418	14-aug-1997	1999066753	03450662	14-aug-2017	Structure of Simple Audio Manager
JP	524095JP02	2000059720	06-mrt-2000	2000293972	03450787	14-aug-2017	Structure of Simple Audio Manager
JP	524095JP03	2003152022	29-mei-2003	2004005985	03739759	14-aug-2017	Structure of Simple Audio Manager
JP	524096JP02	2000064140	08-mrt-2000	2000293950	03359611	10-apr-2018	Audio Title Set Information
JP	524096JP03	2002242577	22-aug-2002	2003151217	03939615	10-apr-2018	Audio Title Set Information
JP	524097JP01	1997328010	28-nov-1997	1999164243	03437426	28-nov-2017	Audio Title Set Information
JP	524097JP02	2000059847	06-mrt-2000	2000285648	03437522	28-nov-2017	Audio Title Set Information
JP	524098JP01	1998116150	10-apr-1998	1999296998	03357288	10-apr-2018	Audio Title Set Information
JP	524098JP02	2000064247	09-mrt-2000	2000293951	03375931	10-apr-2018	Audio Title Set Information

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JP	524099JP02	2003132602	12-mei-2003	2004005967	03885041	28-nov-2017	Presentation structure for Audio Player
JP	524209JP01	1998111504	06-apr-1998	1999296984	03403636	06-apr-2018	Structure of Simple Audio Manager
JP	524209JP03	2002346631	29-nov-2002	2003208760	03872421	06-apr-2018	Structure of Simple Audio Manager
JP	534159JP01	1998336396	26-nov-1998	2000163885	03318535	26-nov-2018	Audio packet for Packed PCM
JP	534160JP02	2002215954	25-jul-2002	2003123395	04077264	25-nov-2018	Audio packet for Packed PCM
JP	580644JP02	2005517926	31-jan-2005		04666634	31-jan-2025	Compressed Audio Files
KR	504102KR01	62001/96	05-dec-1996	97-56160	00329456	05-dec-2016	Digital data transmitting
KR	534159KR01	52944/99	26-nov-1999		00682557	26-nov-2019	Audio packet for Packed PCM
KR	534160KR01	52406/99	24-nov-1999		00634987	24-nov-2019	Audio packet for Packed PCM
MX	504102MX01	966099	05-dec-1996		195994	05-dec-2016	Digital data transmitting
MY	504102MY01	PI9605068	03-dec-1996		MY-112856-A	03-dec-2016	Digital data transmitting
NL-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting
NL-EP	504102EP04	06115016.5	06-jun-2006		01715485	05-dec-2016	Digital data transmitting
NL-EP	504102EP05	06115021.5	06-jun-2006		01715486	05-dec-2016	Digital data transmitting
SG	504102SG01	9611511-8	04-dec-1996		79210	04-dec-2016	Digital data transmitting
TH	504102TH01	9601004164	02-dec-1996		9825	02-dec-2016	Digital data transmitting
TW	504102TW01	85114966	04-dec-1996		88955	03-dec-2016	Digital data transmitting
TW	534159TW01	88120583	25-nov-1999		141475	25-nov-2019	Audio packet for Packed PCM
TW	534160TW01	88120423	23-nov-1999		137762	23-nov-2019	Audio packet for Packed PCM
US	484116US01	08/699191	07-nov-1994		05629924	07-nov-2014	Structure of SYNC Codes
US	504102US02	10/785864	25-feb-2004		RE40312	03-dec-2016	Digital data transmitting
US	504170US02	10/606831	27-jun-2003	2004-0095812	07295762	26-apr-2017	Video information recorded on a multilayer disc
US	504175US01	08/825560	20-mrt-1997		05889746	20-mrt-2017	Text information
US	504175US03	10/152036	22-mei-2002	2004-0136281	RE39110	20-mrt-2017	Text information
US	504186US01	08/819861	17-mrt-1997		05805537	17-mrt-2017	First access unit pointer
US	504187US02	09/452889	02-dec-1999		06778761	17-mrt-2017	24 bit data alignment
US	504188US01	08/806458	26-feb-1997		06236804	26-feb-2017	Minimum readout rate
US	504189US02	09/332867	15-jun-1999		06597861	11-mrt-2017	Audio frame

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US	524095US01	09/131941	10-aug-1998		07340156	10-aug-2018	Structure of Simple Audio Manager
US	524096US01	09/288641	09-apr-1999		06687211	09-apr-2019	Audio Title Set Information
US	524097US01	09/200430	27-nov-1998	2002-0181937	07194196	27-nov-2018	Audio Title Set Information
US	524098US01	09/288643	09-apr-1999		06965727	09-apr-2019	Audio Title Set Information
US	524185US01	09/270658	16-mrt-1999		06308006	16-mrt-2019	Audio Manager Information
US	524185US02	09/942584	31-aug-2001	2002-0051625	06760540	16-mrt-2019	Audio Manager Information
US	524209US01	09/285772	05-apr-1999		07006758	05-apr-2019	Structure of Simple Audio Manager
US	534159US01	09/444719	24-nov-1999		06571055	24-nov-2019	Audio packet for Packed PCM
US	534160US01	09/447416	23-nov-1999		06577589	23-nov-2019	Audio packet for Packed PCM
US	580644US01	10/588954	31-jan-2005		07839755	21-jun-2027	Compressed Audio Files
VN	504102VN01	1-1996-90429	04-dec-1996		1-0001518	04-dec-2016	Digital data transmitting