

## Annex A1 to the CD-RW Recorder Patent License Agreement

Essential PH patents relevant to CD-RW Recorder / CD-RW 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	N 012398 -	312996	17-Jan-89		21-Nov-01	255370	21-Nov-16	Synchronization information in wobbled pre-groove
AR	N 012399 -	312995	17-Jan-89		18-May-01	255065	18-May-16	Synchronisation information in wobble pre-groove
AR	N 012925 -	316796	07-May-90		07-Aug-01	255185	07-Aug-16	Additional information in wobbled pre-groove
AT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	E184416	24-Sep-16	Velocity related information
AT	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	E239968	13-Feb-17	Optical write strategy for different write speeds
AT-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW
BE	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
BE	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds
CA	N 012571 -	599668	15-May-89		05-Jul-94	1330591	05-Jul-11	Disc application code
CA	N 015495 -	2206297	24-Sep-96				24-Sep-16	Velocity related information
CH	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds
CH-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW
CN	N 015495 -	96191532.3	24-Sep-96	1182497-A	12-May-04	96191532.3	24-Sep-16	Velocity related information
CN	N 015495 A	03145753.3	24-Sep-96	1475991-A	22-Jul-09	03145753.3	24-Sep-16	Velocity related information
CN	N 016140 -	97193461.4	01-Dec-97	1214790-A	11-Feb-04	97193461.4	01-Dec-17	OPC for CD-RW
CN	N 016187 -	97193996.9	08-Dec-97	1216628-A	19-May-04	97193996.9	08-Dec-17	Optical recorder gamma value
CZ	N 015495 -	97-PV1610	24-Sep-96		10-Oct-02	291074	24-Sep-16	Velocity related information
DE	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	69604189.8	24-Sep-16	Velocity related information
DE	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	69721658.6	13-Feb-17	Optical write strategy for different write speeds
DE	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	69723440.1	08-Dec-17	Optical recorder gamma value
DE-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW
ES	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
FR	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
FR	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds
FR	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	0904586	08-Dec-17	Optical recorder gamma value

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FR-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW	
GB	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information	
GB	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds	
GB	N 016187 -	97913401.2	08-Dec-97	0904586-A1	09-Jul-03	0904586	08-Dec-17	Optical recorder gamma value	
GB-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW	
GR	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information	
GR	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds	
GR-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW	
HK	N 015495 -	98114109.2	24-Sep-96	1012520-A	1012520-B	2-May-00	HK1012520	23-Sep-16	Velocity related information
HU	N 016187 -	P9902497	08-Dec-97		07-Nov-05	224672	08-Dec-17	Optical recorder gamma value	
ID	N 016140 -	W-980059	01-Dec-97		27-Dec-02	ID0009494	01-Dec-17	OPC for CD-RW	
IE-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW	
IL	N 016140 -	125635	01-Dec-97		27-Nov-01	125635	01-Dec-17	OPC for CD-RW	
IT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information	
IT	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds	
JP	N 015495 -	97-514097	24-Sep-96	99-513521	11-Jan-08	4063321	24-Sep-16	Velocity related information	
JP	N 015495 A	07-206881	24-Sep-96	07-335077			24-Sep-16	Velocity related information	
JP	N 016140 -	98-525404	01-Dec-97	00-504467	18-May-07	3956153	01-Dec-17	OPC for CD-RW	
JP	N 016187 -	98-528590	08-Dec-97	00-507027	16-Feb-07	3916675	08-Dec-17	Optical recorder gamma value	
KR	N 012398 -	89-562	20-Jan-89		26-Jun-98	152430	26-Jun-13	Synchronization information in wobbled pre-groove	
KR	N 012399 -	89-563	20-Jan-89		12-Dec-97	132674	12-Dec-12	Synchronisation information in wobble pre-groove	
KR	N 012571 -	89-6501	16-May-89		22-May-98	148118	22-May-13	Disc application code	
KR	N 013148 -	90-4036	26-Mar-90	90-0015122	21-Jan-99	190791	21-Jan-14	Tempory TOC	
KR	N 013243 -	90-9321	23-Jun-90		11-Feb-00	255263	11-Feb-15	Count area	
KR	N 015495 -	97-703582	24-Sep-96	10-1998-0700646	26-Jan-05	0470007	24-Sep-16	Velocity related information	
KR	N 015895 -	10-1997-0707339	13-Feb-97	10-1999-0007816	18-May-04	0433355	13-Feb-17	Optical write strategy for different write speeds	
KR	N 016140 -	98-706046	01-Dec-97	99-82316	2005-516815	15-Sep-05	0516813	01-Dec-17	OPC for CD-RW

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KR	N 016187 -	98-706553	08-Dec-97	99-87160	22-Aug-05	0511012	08-Dec-17	Optical recorder gamma value
KR	Q 088002 -	89-507	19-Jan-89	89-012293	20-Jan-98	136098	20-Jan-13	Non-Asserted Patent Linking
LU	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds
LU-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW
MC	N 015895 -	97901742.3	13-Feb-97	0821825-A1	07-May-03	0821825	13-Feb-17	Optical write strategy for different write speeds
MX	N 015495 -	973953	24-Sep-96		11-Mar-03	213185	24-Sep-16	Velocity related information
MX	N 016140 -	98-6225	01-Dec-97		06-Oct-05	231132	01-Dec-17	OPC for CD-RW
MX	N 016140 A	02001163	01-Feb-02		01-Jun-07	246147	01-Feb-22	OPC for CD-RW
MY	N 015495 -	PI9604010	27-Sep-96		30-Dec-05	120906	30-Dec-20	Velocity related information
MY	N 016140 -	PI97005831	04-Dec-97		30-Aug-06	125549	30-Aug-21	OPC for CD-RW
NL	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
PL	N 016187 -	P329119	08-Dec-97		03-Mar-03	185917	08-Dec-17	Optical recorder gamma value
PT	N 015495 -	96929488.3	24-Sep-96	0852796-A1	08-Sep-99	0852796	24-Sep-16	Velocity related information
PT-EP	N 016140 -	97912403.9	01-Dec-97	0880778-A1			01-Dec-17	OPC for CD-RW
RU	N 016187 -	98117821	08-Dec-97	18	20-Oct-03	2214629	08-Dec-17	Optical recorder gamma value
SG	N 015495 -	9803014.1	24-Sep-96		30-Dec-04	53769	24-Sep-16	Velocity related information
TW	N 015495 -	85115279	10-Dec-96	397974	14-Nov-00	117476	10-Dec-16	Velocity related information
TW	N 016140 -	86102195	24-Feb-97	358935	19-Oct-99	103839	24-Feb-17	OPC for CD-RW
TW	N 016187 -	87101195	02-Feb-98	365674	13-Dec-99	105425	02-Feb-18	Optical recorder gamma value
US	N 009666 C	07/375620	25-Jul-89		28-Oct-97	5682365	28-Oct-14	Wobble in pre-groove
US	N 012925 W	08/041141	31-Mar-93		23-May-95	5418764	23-May-12	Additional information in wobbled pre-groove
US	N 012925 X	08/390451	17-Feb-95		05-Aug-97	5654947	23-May-12	Additional information in wobbled pre-groove
US	N 015495 -	08/722651	30-Sep-96		10-Nov-98	5835462	30-Sep-16	Velocity related information
US	N 015895 -	08/800443	18-Feb-97		01-Sep-98	5802032	18-Feb-17	Optical write strategy for different write speeds
US	N 016140 -	08/759653	06-Dec-96		11-Aug-98	5793737	06-Dec-16	OPC for CD-RW
US	N 016140 V	08/976520	21-Nov-97		17-Oct-00	6134209	06-Dec-16	OPC for CD-RW
US	N 016187 B	11/023026	23-Dec-04	2005-0152248-A1	17-Oct-06	7123563	02-Dec-17	Optical recorder gamma value

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US	N 016187 C	11/536029	28-Sep-06	2007-0019524-A1	22-Apr-08	7362673	22-Apr-25	Optical recorder gamma value
VN	N 015495 -	S19970443	24-Sep-96		16-Jan-02	2540	24-Sep-16	Velocity related information
VN	N 016140 -	S19980667	01-Dec-97		18-Mar-02	2669	01-Dec-17	OPC for CD-RW
ZA	N 016140 -	9710932	04-Dec-97		31-Aug-99	97-10932	04-Dec-17	OPC for CD-RW