

## SUMMARY REPORT OF ESSENTIAL DVD-RW RECORDING PATENTS\*

HITACHI ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
4,646,103		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 2.2.3.8.1 <i>Annex:</i> K <i>Figs.:</i> 2.2.3.8.1-1, K-1, K-2 <i>Pages:</i> PH1-1, PH2-29, PHX-K1, K2
4,682,332	EP 150,811 (DE, FR, GB, NL)	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.2.3, 3.2.5 <i>Figs.:</i> 3.2-1, 3.2.1-1 <i>Pages:</i> PH3-2, 4, 7
5,257,256		1	<b>DVD-RW, Part 1:</b> <i>Sec.:</i> 2.2.3.8.1 <i>Annex:</i> K <i>Figs.:</i> K-1, K-2 <i>Pages:</i> PH2-29, PHX-K1, K2
5,333,126	DE 4,304,267	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.8.1, 3.2.9, 3.3, 3.3.1, 3.3.2 <i>Annex:</i> J <i>Fig.:</i> 3.2.9-1 <i>Pages:</i> PH2-29, PH3-12, 13, 16 to 18, PHX-J1 to J3

\* This report shows *illustrative* essential claims of each patent. Other patent claims also may be essential. Additionally, citations to the DVD specifications reflect one mapping of the representative claim to the DVD specifications. Other mappings of the representative claim or other claims in the patent to the DVD specifications may also be possible.

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HITACHI ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,642,343		16	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.6, 1.8, 2.1.1, 2.2.1, 2.2.3.8.1, 2.2.6.7, 3.3, 3.3.1, 4.2.3.6.1, 4.2.3.6.2 <i>Figs.:</i> 2.1.1-1, 2.2.1-1, 2.2.3.8.1-1 <i>Tables:</i> 4.2.3.6.1-1, 4.2.3.6.2-1 <i>Pages:</i> PH1-1, 7, 9, 15, PH2-1, 25, 29, 34, PH3-16, 17, PH4-15, 16
5,732,061		11	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.6, 3.2, 4.3.1.1 <i>Annex:</i> L <i>Fig.:</i> 4.3.1-1 <i>Pages:</i> PH1-8, 12, PH3-2, PH4-24, PHX-L1 to L3
5,768,298		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.2, 3.2.1, 3.2.7, 3.2.8 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.7-1, 3.2.8-1 <i>Pages:</i> PH3-2, 9, 11
(5,974,581) *	CN ZL 96105518.9	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.9 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.7-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH3-2, 3, 9, 12, 13
5,983,387	KR 239,236	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.9 <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.9-1 <i>Pages:</i> PH2-1, PH3-2, 3, 9, 12
6,076,184		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7 to 3.2.9 <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.9-1 <i>Pages:</i> PH2-1, PH3-2, 3, 9, 11, 12

\* U.S. Patent No. 5,974,581 is essential for DVD-RW for disc, but its non-U.S. counterpart (CN ZL 96105518.9) has claims directed to disc and recording.

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HITACHI ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
6,140,028		30	DVD-RW, Part 1: <i>Secs.:</i> 2.1.1, 2.1.3.2, 2.1.3.8, 4.1.2 <i>Figs.:</i> 2.1.1-1, 2.1.3.8-1, 2.1.4-1 <i>Pages:</i> PH2-1, 4, 6, 7, 12, PH4-1

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JVC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,014,274	EP 337,702 (DE, FR, GB, NL); HK 1,000,543; KR 59,670	1	DVD-RW, Part 1: <i>Secs.:</i> 3.2, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2-1, 3.2.6-1 <i>Table:</i> 3.2.6-1 <i>Pages:</i> PH3-2, 3, 8
5,862,115	EP 655,739 (DE, FR, GB)	8	DVD-RW, Part 1: <i>Secs.:</i> 2.1.1, 3.1.1, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2.1-1, 3.2.6-1 <i>Table:</i> 3.2.6-1 <i>Pages:</i> PH2-1, PH3-1 to 3, 8
6,965,555		16	DVD-RW, Part 1: <i>Secs.:</i> 1.1, 2.1.6, 2.1.8.2, 2.2.1, 2.2.7.1, 2.2.7.3, 3, 3.1.1, 3.1.3, 3.4.1.1, 3.4.1.4, 4, 4.1.1 <i>Annex:</i> Y <i>Figs.:</i> 2.2.1-1, 3.1.4-1, 3.4.1.1-1, 3.4.1.4-1, 3.4.1.4-2, 3.4.1.4-3, Y-1 <i>Pages:</i> PH1-1, PH2-16, 17, 24-2, 24-3, 25, 35, 37, 39, PH3-1, 28, 36, 37, PH4-1, PHX-Y1

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JVC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
7,102,970  (essential for 4x, 6x)		3	<p><b>DVD-RW, Part 1:</b>  <i>Secs.:</i> 1.1, 2.1.3, 2.1.3.2, 2.2.1, 3.1.4, 3.4.1.4.1, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 2.2.1-1, 3.1.4-1, K-1, K-2  <i>Tables:</i> 3.4.1.4.1-1, 3.4.1.4.1-5  <i>Pages:</i> PH1-1, PH2-4, 25, PH3-1, 36-3, 36-10, PH4-17, PHX-K1, K2</p> <p><b>DVD-RW, Part 1 (2x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3A.1.2, 3.1.3, 3.1.3.4  <i>Annex:</i> A  <i>Figs.:</i> 2.1.5.1-1, 3.1.3-1, 3.1.3-2  <i>Tables:</i> 3A.1.2-1, 3A.1.2-2, 3.1.3.4-1  <i>Pages:</i> OS2-5, OS3A-1, 3A-2, OS3-3, 4, 7, OSX-A1</p> <p><b>DVD-RW, Part 1 (4x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3.1.2, 3.1.2.4  <i>Annex:</i> A  <i>Figs.:</i> 2.1.5.1-1, 3.1.3-1, 3.1.3-2  <i>Tables:</i> 3.1.2-1, 3.1.2-2, 3.1.3.4-1  <i>Pages:</i> OS2-5, OS3-1, 3, 4, 7, OSX-A1</p> <p><b>DVD-RW, Part 1 (6x-speed):</b>  <i>Secs.:</i> 3.1.2, 3.1.2.2, 3.1.2.3, 3.1.2.4  <i>Table:</i> 3.1.2-2  <i>Pages:</i> OS3-2, 3</p>

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MITSUBISHI ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
4,703,494		21	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.1.4, 3.2.9, 3.3 <i>Fig.:</i> 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH3-1, PH3-12, 13, 16
4,993,029		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 2.1.3.2, 2.1.7.1, 2.2.3.2, 3.2, 3.2.1, 3.2.6 <i>Figs.:</i> 2.1.7.1-1, 3.2-1, 3.2.1-1, 3.2.6-1 <i>Table:</i> 3.2.6-1 <i>Pages:</i> PH1-1, PH2-4, 19, 22, 28, PH3-2, 8
5,537,652	CA 2,045,948; MY 110,229	8	<b>DVD-RW, Part 2:</b> <i>Secs.:</i> 1.1, 2.2, 2.3, 2.5, 2.5.1, 2.6.7, 3.2, 3.4, 3.4.1, 3.6, 3.6.1, 3.6.2, 3.7, 3.7.1, 3.7.2, 3.8, 3.10 <i>Annex:</i> D <i>Figs.:</i> 2.2-1, 2.3-1, 3.1-1 <i>Tables:</i> 2.5.1-1, 2.6.7-1, 3.2-1, 3.4.1-1, 3.6.1-1, 3.6.2-1, 3.7.1-1 <i>Pages:</i> FS1-1, FS2-2 to 4, 9, 20, 21, FS3-2 to 4, 7, 8, 10, 14, 15, 18, 19, 21, 30, 31, 33, 34, 42, FSX-D1, D2
5,561,656	EP 713,213 (DE, FR, GB); KR 184,628	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.2, 1.6, 2.1.7.1(a), 2.2.1, 2.2.3.2, 2.2.3.3, 2.2.3.8.1, 2.2.6.7, 3.3.1 <i>Annex:</i> K <i>Figs.:</i> 1.6-1, 2.2.1-1, 2.2.3.8.1-1, 2.2.4-1 <i>Pages:</i> PH1-2, 9, PH2-19, 25, 28, 29, 32, 34, PH3-17, PHX-K1, K2
6,163,522		3	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.1.1, 2.1.6.4, 2.2.6.5, 2.2.7.3, 3.1.1, 3.1.4, 3.2.9, 4.1.1, 4.1.4, 4.1.4.2, 4.2.1, 4.2.2, 4.2.3.1, 4.2.3.2 <i>Figs.:</i> 2.2.7.3-1, 2.2.7.3-3, 3.1.4-1, 4.1.4-1, 4.2.1-1, 4.2.1-3, 4.2.3.2-1 <i>Pages:</i> PH2-1, 16, 34, 37, 38, 40, PH3-1, 12, PH4-1 to 6, 9

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MITSUBISHI ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
6,438,079		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.2, 1.6, 2.1.7.1, 2.1.7.2, 2.2.7.1, 2.2.7.3, 3.2.9, 4.2.1, 4.2.2 <i>Annex:</i> M <i>Figs.:</i> 2.1.7.2-1, 2.2.7.1-1, 2.2.7.3-1, 2.2.7.3-3, 3.2.9-1, 4.2.1-1, 4.2.2-1, 4.2.2-2, M-2, M-3 <i>Pages:</i> PH1-1, 2, 8, 11, 12, PH2-19, 20, 23, 35 to 38, 40, PH3-12, PH4-3, 6, PHX-M1, M2
6,466,530		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.2, 1.6, 2.1.7.1, 2.1.7.2, 2.2.7.1, 2.2.7.3, 3.2.9, 4.2.1, 4.2.2 <i>Annex:</i> M <i>Figs.:</i> 2.1.7.2-1, 2.2.7.1-1, 2.2.7.3-1, 2.2.7.3-3, 3.2.9-1, 4.2.1-1, 4.2.2-1, 4.2.2-2, M-2, M-3 <i>Pages:</i> PH1-1, 2, 8, 11, 12, PH2-19, 20, 23, 35 to 38, 40, PH3-12, PH4-3, 6, PHX-M1, M2
6,493,306		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.2, 1.6, 2.1.7.1, 2.1.7.2, 2.2.7.1, 2.2.7.3, 3.2.9, 4.2.1, 4.2.2 <i>Annex:</i> M <i>Figs.:</i> 2.1.7.2-1, 2.2.7.1-1, 2.2.7.3-1, 3.2.9-1, 4.2.1-1, 4.2.2-1, 4.2.2-2, M-2, M-3 <i>Pages:</i> PH1-1, 2, 8, 11, 12, PH2-19, 20, 23, 35 to 38, 40, PH3-12, PH4-3, 6, PHX-M1, M2

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PANASONIC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
4,425,637		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.2, 2.1.1, 2.1.3.3, 2.2.3.2, 2.2.3.8.1, 3.2.2, 3.3.1, 4.2.3.6.3 <i>Annex:</i> K <i>Fig.:</i> 2.2.3.8.1-1 <i>Table:</i> 4.2.3.6.3-2 <i>Pages:</i> PH1-2, PH2-1, 4, 28, 29, PH3-3, 17, PH4-17, 18, PHX-K1
4,630,140	EP 124,770 (DE, FR, GB)	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.1, 3.2.2, 4.1.1, 4.1.4, 4.2.3.1, 4.2.3.2 <i>Figs.:</i> 3.1.4-1, 3.2-1, 3.2.1-1, 4.1.4-1, 4.2.3.2-1 <i>Pages:</i> PH2-28, PH3-1 to 3, PH4-1, 2, 9
4,728,929		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.2.9, 3.3, 3.3.1, 3.3.2 <i>Fig.:</i> 3.3-2 <i>Tables:</i> 3.2.9-1, 3.3-1, 3.3-2 <i>Pages:</i> PH3-12, 13, 16 to 18, 20 to 27
4,939,717	CA 1,285,332; EP 265,971 (DE, FR, GB); KR 41,631	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.2, 2.2.6.7, 2.2.3.8.1, 4.2.3.6.3 <i>Annex:</i> K.2 <i>Table:</i> 4.2.3.6.3-2 <i>Pages:</i> PH2-28, 29, 34, PH4-17, 18, PHX-K2
5,109,373		16	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.2, 1.6, 2.2.3.2, 2.2.3.8.1, 2.2.6.7, 4.2.3.6, 4.2.3.6.1 <i>Figs.:</i> 2.2.3.8.1-1, 4.2.3.6-1 <i>Table:</i> 4.2.3.6.1-1 <i>Pages:</i> PH1-1, 2, 6, 8, 11, 12, PH2-28, 29, 34, PH4-14 to 16

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PANASONIC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,185,792		2	DVD-RW, Part 2: <i>Secs.:</i> 1.1, 3.9, 3.9.4 <i>Tables:</i> 3.9.4-1, 3.9.4-2 <i>Pages:</i> FS1-1, FS3-36, 40  DVD-RW, Part 1: <i>Annex:</i> T <i>Fig.:</i> T-1 <i>Page:</i> PHX-T1
5,276,674		4	DVD-RW, Part 1: <i>Secs.:</i> 1.2, 2.1.1, 2.1.5.1, 2.1.6.10, 2.2.3.2, 3.2.7, 3.2.9 <i>Figs.:</i> 2.1.1-1, 2.1.5-1, 3.2.7-1, 3.2.9-1 <i>Pages:</i> PH1-2, PH2-1, 13, 14, 16, 28, PH3-9, 12
5,291,470	EP 335,486 (DE, FR, GB, NL)	23	DVD-RW, Part 1: <i>Sec.:</i> 2.2.3.8.1 <i>Fig.:</i> 2.2.3.8.1-1 <i>Page:</i> PH2-29
5,331,620		1	DVD-RW, Part 1: <i>Secs.:</i> 3.2, 3.2.9, 3.3, 3.3.1 <i>Fig.:</i> 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH3-2, 12, 13, 16, 17
5,546,427		1	DVD-RW, Part 1: <i>Secs.:</i> 3.2, 3.2.9, 3.3 <i>Fig.:</i> 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH3-2, 12, 13, 16

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PANASONIC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,790,487	EP 686,968 (DE, FR, GB); KR 254,155	13	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.1.1, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.6-1 <i>Pages:</i> PH3-1 to 3, 8
5,808,979		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.2, 2.1.1, 2.1.3.2, 2.1.7.1, 2.1.7.2 <i>Annex:</i> I.1, I.2 <i>Figs.:</i> 2.1.1-1, 2.1.7.2-1, I.1-1 <i>Pages:</i> PH1-1, 2, PH2-1, 4, 19, 20, 23, PHX-I1, I3
6,031,803		5	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 4.2.3.6, 4.2.3.6.2 <i>Annex:</i> L <i>Fig.:</i> 4.2.3.6-1 <i>Table:</i> 4.2.3.6.2-1 <i>Pages:</i> PH4-14, 16, PHX-L1 to L3
6,590,846	EP 1,204,102 (DE, FR, GB)	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 2.1.3.2, 3.2.4, 3.2.4.1, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.4, 3.4.1.4.1, 4.1.4.1 <i>Figs.:</i> 2.2.4.1-1, 3.2.1-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-2, 4.1.4-1 <i>Pages:</i> PH1-1, PH2-4, 32, PH3-2, 4, 5, 28 to 31, 36 to 36-3, PH4-2
7,130,840	KR 491,193	4	<b>DVD-RW, Part 2:</b> <i>Secs.:</i> 1.1, 2.2.2, 2.3.2, 3.1, 3.2, 3.2.2, 3.3, 3.3.2 <i>Figs.:</i> 2.2.2-1, 2.3.2-1 <i>Tables:</i> 3.3-1, 3.2.2-1, 3.3-1, 3.3.2-1, 3.3.2-2 <i>Pages:</i> FS1-1, FS2-3, 4, 8, 9, FS3-1, 2, 4 to 7, 12 to 16
RE 37,801		9	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.6, 3.2.9, 3.3 <i>Figs.:</i> 2.1.7.2-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH1-1, 6, PH2-23, PH3-12, 13, 16

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PANASONIC ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
RE 39,771		28	DVD-RW, Part 1: <i>Secs.:</i> 1.6, 2.2.3.2, 3.1.4, 3.2, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.6-1 <i>Table:</i> 3.2.6-1 <i>Pages:</i> PH1-6, 11, PH2-28, PH3-1 to 3, 8
RE 39,832		7	DVD-RW, Part 1: <i>Secs.:</i> 1.1, 1.6, 3.2.9, 3.3 <i>Figs.:</i> 2.1.7.2-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH1-1, 6, PH2-23, PH3-12, 13, 16

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PANASONIC/TOSHIBA ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,732,066	TW 84,703	7	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.1.1, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.6-1 <i>Pages:</i> PH3-1 to 3, 8
5,790,569	CA 2,190,985; KR 255,105; TW 89,851; VN 1,269	19	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.2.1, 3.2.7, 3.2.8 <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1 <i>Pages:</i> PH3-2, 9, 11
5,867,475	CA 2,217,005; CN ZL 96194622.9; EP 820,629 (AT, BE, CH, DE, FR, GB, LI, NL) (Lapsed in ES, IT, LU, SE); HK 1,008,610; ID 8,062 (ID 960,933); SG 46,792; TH 14,818	8	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 3.1.1, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.6 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.6-1 <i>Pages:</i> PH3-1 to 3, 8

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PANASONIC/TOSHIBA ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,881,037	CA 2,192,062; CN ZL 96190546.8; EP 764,327 (AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE); HK 1,005,837; ID 5,094 (ID 960,868); KR 377,524; MX 211,803; MY 112,830; PH 52,831; SG 36,463; TH 16,120; TW 126,249; VN 1,152	6	DVD-RW, Part 1: <i>Secs.:</i> 3.2, 3.2.9, 3.3, 3.3.1 <i>Figs.:</i> 3.2-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH3-2, 12, 13, 16, 17

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PANASONIC/TOSHIBA ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,912,869	AU 708,923; BR PI 9606290-8; CA 2,191,702; CN ZL 96190540.9; EP 763,239 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, SE); HK 1,004,647; ID 11,625; KR 377,523; MX 196,771; MY 112,963; NO 318,893; RU 2,159,966; SG 35,867; TW 84,702; VN 1,480	15	DVD-RW, Part 1: <i>Secs.:</i> 1.1, 1.2, 1.6, 2.2.3.8, 2.2.3.8.1, 3.2.9, 3.3, 3.3.1 <i>Fig.:</i> 1.6-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH1-1, 2, 6, 9, PH2-29, PH3-12, 13, 16, 17
5,978,958	AU 706,245; CN ZL 96190566.2; KR 402,373; MX 205,657; MY 116,510; NO 322,734; PH 52,832; TW 82,934	5	DVD-RW, Part 1: <i>Secs.:</i> 3.2, 3.2.1, 3.2.2, 3.2.7 to 3.2.9 <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.2-1, 3.2.7-1, 3.2.8-1, 3.2.9-1 <i>Pages:</i> PH3-2, 3, 9, 11, 12

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SAMSUNG ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
6,389,570	CN ZL 02140736.3; CN ZL 02140737.1; CN ZL 99109257.0; EP 1,306,846 (DE, FR, GB, NL); HK 1,049,730; HK 1,049,731; KR 382,639	1	<b>DVD-RW, Part 2:</b> <i>Secs.:</i> 1.1, 2.1, 3.1, 3.2, 3.6, 3.6.1 to 3.6.3, 3.8, 3.8.2, 3.9 <i>Annex:</i> B to E, F.3.3, G.3.6 to G.3.8 <i>Fig.:</i> 3.1-1 <i>Tables:</i> 3.2-1, 3.6.1-1, 3.6.2-1, 3.6.3-1, 3.6.3-2, B.3.2-1 <i>Pages:</i> FS1-1, FS2-1, FS3-1 to 4, 14 to 24, 34 to 36, FSX-B1 to B6, C1 to C10, D1, D2, E1 to E5, F29, F30, G39 to G42
6,741,535		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 4.1.4, 4.3.2.1, 4.3.2.1.2, 4.3.2.2, 4.3.2.2.2.1 <i>Annex:</i> V.7 <i>Figs.:</i> 4.1.4, 4.3.2.1-1, 4.3.2.1.2-1 <i>Tables:</i> 4.3.2.2-1, 4.3.2.2.2.1-1 <i>Pages:</i> PH1-1, 1-2, PH4-1, 2, 25, 27, 28, 39, 40, PHX-V58
6,868,054		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 3.4.1.1, 3.4.1.2.2, 3.4.1.4, 3.4.1.4.1 <i>Figs.:</i> 3.4.1.4-1, 3.4.1.4-2 <i>Table:</i> 3.4.1.4.1-1 <i>Pages:</i> PH1-1, PH3-28, 36 to 36-3, 36-9
7,042,820		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.1, 1.6, 3.2.10, 4.3.2.1, 4.3.2.2, 4.3.2.2.3.5 <i>Figs.:</i> 3.2.10-1, 3.2.10-6, 4.3.2.1-1, 4.3.2.2.3.5-1 <i>Pages:</i> PH1-1, 8, PH3-14, 15, PH4-25, 28, 50, 51

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SAMSUNG ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
(6,467,061)	CN ZL 02140738.X; EP 1,150,293 (DE, FR, GB, NL); EP 1,249,838 (DE, FR, GB, NL); HK 1,049,732; PH 1-2002-000465; SG 115,483	†	DVD-RW, Part 2: <i>Sec.:</i> 1.1, 3.1, 3.10 <i>Fig.:</i> 3.1-1 <i>Pages:</i> FS-1, FS3-1, 2, 42

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† This US patent has been found essential for disc only. However, the counterparts are listed for recording because the recording claim is substantially similar to the essential US disc claim.

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SHARP ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	DVD-RW Specification
5,953,297		1	DVD-RW, Part 1: <i>Secs.:</i> 1.1, 1.2, 1.6, 2.2.7.3, 3.2, 3.2.1, 3.2.2, 3.2.9, 4.1.4, 4.2.1, 4.2.2 <i>Annex:</i> N <i>Figs.:</i> 3.2-1, 3.2.1-1, 3.2.9-1, 4.1.4-1, 4.2.1-1, 4.2.1-3, 4.2.2-3, N-1 <i>Pages:</i> PH1-1, 2, 6, 7, 11, 12, PH2-39, PH3-2, 3, 12, PH4-1 to 6, PHX-N1, N2

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TOSHIBA ESSENTIAL DVD-RW RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-RW Specification
5,587,991	KR 191,944	4	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.2, 3.2.9, 3.3.1, 3.3.2 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH2-28, PH3-12, 13, 17, 18
5,881,046		1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.9, 3.3, 3.3.1, 3.3.2 <i>Annex:</i> J <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH2-28, PH3-2, 12, 13, 16 to 18, PHX-J1 to J3
5,956,306	EP 802,536 (DE, FR, GB)	1	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.2.7 to 3.2.9, 3.3.1 <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1 <i>Pages:</i> PH2-28, PH3-2 to 4, 9 to 12, 17
5,959,962		12	<b>DVD-RW, Part 1:</b> <i>Secs.:</i> 1.2, 1.6, 2.1.1, 2.1.3.2, 2.1.3.3, 2.1.3.8, 2.1.3.9, 2.2.1, 2.2.3.8, 2.2.7.1, 2.2.7.3(b), 3.3.3, 3.4.1, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.4, 3.4.1.4.1, 4.1.1, 4.1.4.1, 4.2.1 to 4.2.3, 4.2.3.6, 4.2.3.6.1 to 4.2.3.6.3, 4.2.3.7, 4.3.2.2, 4.3.2.2.1, 4.3.2.2.1.1, 4.3.2.2.1.2 <i>Annex:</i> K, L, T <i>Figs.:</i> 2.1.1-1, 2.1.4-1, 2.2.1-1, 2.2.3.8.1-1, 2.2.4.1-1, 2.2.7.1-2, 3.4.1-1, 4.1.4-1, 4.2.2-4, 4.2.3.6-1, 4.2.3.6-2, 4.2.3.7-1, 4.2.3.7-2, T-1 <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.4.1-2, 4.2.3-1, 4.2.3.6.3-6, 4.3.2.2-1, 4.3.2.2.1.1-1, 4.3.2.2.1.1-2, 4.3.2.2.1.2-1 <i>Pages:</i> PH1-2, 7, 8, 12, PH2-1, 4, 6, 8, 12, 25, 28, 29, 32, 35, 36, 39, PH3-19, 28 to 34, 36, 36-3 to 36-6, PH4-1 to 4, 6 to 8, 14 to 17, 21 to 23, 28 to 35, PHX-K1, K2, L1 to L3, T1