

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

HITACHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,646,103		1	<p>DVD-R, Part 1 (v. 1):  <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  <i>Pages:</i> PH-1, 46, 47, PHX-22</p> <p>DVD-R, Part 1 (v. 2 Auth):  <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  <i>Pages:</i> PH1-1, PH2-29, PHX-K1</p> <p>DVD-R, Part 1 (v. 2 Gen):  <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  <i>Pages:</i> PH1-1, PH2-29, PHX-K1</p>

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\* 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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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,682,332	EP 150,811 (DE, FR, GB, NL)	1	<p>DVD-R, Part 1 (v. 1):  <i>Secs.:</i> 3.2.3, 3.2.5  <i>Figs.:</i> 3.2-1, 3.2.1-1  <i>Pages:</i> PH-62, 64, 67</p> <p>DVD-R, Part 1 (v. 2 Auth):  <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, 5</p> <p>DVD-R, Part 1 (v. 2 Gen):  <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, 6</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,894,816		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 2.2.3.8.1, 4.2.3.6  <i>Annex:</i> K  <i>Figs.:</i> 2.2.3.8.1-1, K-1  <i>Tables:</i> 4.2.3.6-1, 4.2.3.6-3 to 4.2.3.6-6  <i>Pages:</i> PH-46, 47, 108 to 112, PHX-22</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 2.2.3.8.1, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 2.2.3.8.1-1, K-1  <i>Tables:</i> 4.2.3.6.3-1 to 4.2.3.6.3-6  <i>Pages:</i> PH2-29, PH4-18 to 21, PHX-K1</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 2.2.3.8.1, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 2.2.3.8.1-1, K-1  <i>Tables:</i> 4.2.3.6.3-1 to 4.2.3.6.3-6  <i>Pages:</i> PH2-29, PH4-18 to 21, PHX-K1</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,257,256		1	<p>DVD-R, Part 1 (v. 1):  <i>Sec.:</i> 2.2.3.8.1  <i>Annex:</i> K  <i>Fig.:</i> K-1  <i>Pages:</i> PH-46, 47, PHX-22</p> <p>DVD-R, Part 1 (v. 2 Auth):  <i>Sec.:</i> 2.2.3.8.1  <i>Annex:</i> K  <i>Fig.:</i> K-1  <i>Pages:</i> PH2-29, PHX-K1</p> <p>DVD-R, Part 1 (v. 2 Gen):  <i>Sec.:</i> 2.2.3.8.1  <i>Annex:</i> K  <i>Fig.:</i> K-1  <i>Pages:</i> PH2-29, PHX-K1</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,333,126	DE 4,304,267	1	<p><b>DVD-R, Part 1 (v. 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> PH-46, 72, 75, 75-1, 76, PHX-19 to 21</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, PH3-10, 13 to 15, PHX-J1 to J3</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, PH3-11, 15 to 17, PHX-J1 to J3</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,732,061		11	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.5.50, 3.2, 4.3.1.1  <i>Annex:</i> L  <i>Fig.:</i> 4.3.1-1  <i>Pages:</i> PH-9, 62, 117, PHX-25</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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> PH1-13, PH3-2, PH4-23, PHX-L1</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.5, 3.2, 4.3.1.1  <i>Annex:</i> L  <i>Fig.:</i> 4.3.1-1  <i>Pages:</i> PH1-12, PH3-2, PH4-24, PHX-L1</p>

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HITACHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,768,298		1	<p><b>DVD-R, Part 1 (v. 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> PH-62, 69, 71</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 7, 9</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 8, 10</p>

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HITACHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
(5,974,581) <sup>1</sup>	CN ZL 96105518.9	1	<p><b>DVD-R, Part 1 (v. 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> PH-62, 63, 69, 72, 73</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 7, 10, 11</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 8, 11, 12</p>

<sup>1</sup> U.S. Patent No. 5,974,581 is essential for DVD-R 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-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,983,387	KR 239,236	1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH-15, 62, 63, 69, 72</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 2.1.1-1, 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-1, PH3-2, 3, 7, 9, 10</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 2.1.1-1, 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-1, PH3-2, 3, 8, 10, 11</p>
6,076,184		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH-15, 62, 63, 69, 71, 72</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 2.1.1-1, 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-1, PH3-2, 3, 7, 9, 10</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 2.1.1, 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 3.2.9  <i>Figs.:</i> 2.1.1-1, 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-1, PH3-2, 3, 8, 10, 11</p>

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HITACHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
6,140,028		30	<p>DVD-R, Part 1 (v. 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, 2.4.1-1  <i>Pages:</i> PH-15, 18, 20, 21, 27, 95</p> <p>DVD-R, Part 1 (v. 2 Gen):  <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, 2.4.1-1  <i>Pages:</i> PH2-1, 4, 6, 7, 12, PH4-1</p>

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JVC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	DVD-R Specification
5,014,274	EP 337,702 (DE, FR, GB, NL); HK 1,000,543; KR 59,670	1	<p>DVD-R, Part 1 (v. 1):  <i>Secs.:</i> 3.2, 3.2.2, 3.2.6  <i>Fig.:</i> 3.2.6-1  <i>Table:</i> 3.2.6-1  <i>Pages:</i> PH-62, 63, 68</p> <p>DVD-R, Part 1 (v. 2 Auth):  <i>Secs.:</i> 3.2, 3.2.2, 3.2.6  <i>Fig.:</i> 3.2.6-1  <i>Table:</i> 3.2.6-1  <i>Pages:</i> PH3-2, 3, 6</p> <p>DVD-R, Part 1 (v. 2 Gen):  <i>Secs.:</i> 3.2, 3.2.2, 3.2.6  <i>Fig.:</i> 3.2.6-1  <i>Table:</i> 3.2.6-1  <i>Pages:</i> PH3-2, 3, 7</p>

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JVC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,862,115	EP 655,739 (DE, FR, GB)	8	<p><b>DVD-R, Part 1 (v. 1):</b>  <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> PH-15, 61 to 63, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <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, 7</p>
7,102,970  (essential for 4x, 6x, 8x, 12x and 16x)		3	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 2.2.1, 3.1.4, 3.4.1.4.1, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> K-1, K-2  <i>Table:</i> 3.4.1.4.1-1  <i>Pages:</i> PH1-1, PH2-25, PH3-1, 35, PH4-18, PHX-K1, K2</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(2x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3.1.2, 3.1.2.1, 3.1.3, 3.1.3.4, 4.1.2  <i>Figs.:</i> 2.1.5.1-1, 4.1.2-1, 4.1.2-2  <i>Tables:</i> 3.1.2-1, 3.1.2-2, 3.1.2.1-1  <i>Pages:</i> OS2-5, OS3-1 to OS3-3, OS 3-7, OS4-2</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
			<p><b>DVD-R, Part 1 (v. 2 Gen)(4x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3A.1.2, 3A.1.2.4, 3.1.4, 3.1.4.3  <i>Annex:</i> B  <i>Figs.:</i> 2.1.5.1-1, 3.1.4-1, 3.1.4-2  <i>Tables:</i> 3A.1.2-1, 3A.1.2-2  <i>Pages:</i> OS2-5, OS3A-1, 3A-2, OS3-12, 13, 17, OSX-B1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(6x-speed):</b>  <i>Sec.:</i> 3.1.2  <i>Page:</i> OS3-1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(8x-speed):</b>  <i>Sec.:</i> 3.1.2  <i>Page:</i> OS3-1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(12x-speed):</b>  <i>Sec.:</i> 3.1.2  <i>Page:</i> OS3-1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(16x-speed):</b>  <i>Sec.:</i> 3.1.2  <i>Page:</i> OS3-1</p>
7,394,743  (4x speed, 6x speed, 8x speed, 12x speed, 16x speed)		10	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 2.1.3.2, 2.1.6, 3.1.4, 3.4.1.4.1, 4.2.3.6.1, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 3.1.4-1, K-1, K-2  <i>Tables:</i> 3.4.1.4.1-1, 4.2.3.6-1, 4.2.3.6-2, 4.2.3.6.3-1  <i>Pages:</i> PH1-1, PH2-4, 16, 17, PH3-1, 35, PH4-14, 15, 18, PHX- K1, DD1</p>

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
			<p><b>DVD-R, Part 1 (v. 2 Gen)(2x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3.1.2, 3.1.2.1, 3.1.3, 3.1.3.4, 4.1.2  <i>Figs.:</i> 2.1.5.1-1, 4.1.2-1, 4.1.2-2  <i>Tables:</i> 3.1.2-1, 3.1.2-2, 3.1.2.1-1  <i>Pages:</i> OS2-5, OS3-1 to 2, OS4-3</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(4x-speed):</b>  <i>Secs.:</i> 2.1.5.1, 3.1.4, 3.1.4.3, 3A.1.2, 3A.1.2.4  <i>Annex:</i> B  <i>Figs.:</i> 2.1.5.1-1, 3.1.4-1, 3.1.4-2  <i>Tables:</i> 3A.1.2-1, 3A.1.2-2  <i>Pages:</i> OS2-5, OS3-12, 13, 17, OS3A-1, 2, OSX-B1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(8x-speed):</b>  <i>Secs.:</i> 3.1.2  <i>Pages:</i> OS3-1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(12x-speed):</b>  <i>Secs.:</i> 3.1.2  <i>Pages:</i> OS3-1</p> <p><b>DVD-R, Part 1 (v. 2 Gen)(16x-speed):</b>  <i>Secs.:</i> 3.1.2  <i>Pages:</i> OS3-1</p>

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7,414,944		13	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1, 4.2.3  <i>Figs.:</i> 2.2.1-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2, 8</p>
7,471,608		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1  <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2</p>
7,515,518		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.1, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.4.2, 3.4.1.7, 3.4.1.8, 4.1.4.1  <i>Figs.:</i> 2.2.1-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2</p>
7,525,900		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1, 4.2.3  <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1, 4.2.3-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2, 8</p>

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JVC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,525,901		4	<b>DVD-R, Part 1 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.4.1.1, 3.4.1.2, 3.4.1.2.1, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.4.2, 3.4.1.7, 3.4.1.8, 4.1.4.1 <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-1, 3.4.1.8-1, 4.1.4-1 <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1 <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2
7,532,561		4	<b>DVD-R, Part 1 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1 <i>Figs.:</i> 2.2.1-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1 <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1 <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2
7,539,112		4	<b>DVD-R, Part 1 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.6, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1 <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1 <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.2.2-2, 3.4.1.4.1-1, 3.4.1.4.1-2, 3.4.1.8-1 <i>Pages:</i> PH1-1, 6 to 8, PH2-16, 25, PH3-2, 4, 9, 28 to 30, 33, 35, 36, 36-3, 36-6, 36-12, 37, PH4-2
7,539,120		4	<b>DVD-R, Part 1 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1 <i>Figs.:</i> 2.2.1-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1 <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.2.2-2, 3.4.1.4.1-1, 3.4.1.4.1-2, 3.4.1.8-1 <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 32 to 35, 38, 39-4, 40, 41, PH4-2

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

JVC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,567,492		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.7, 3.4.1.8, 4.1.4.1  <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.2.2-2, 3.4.1.4.1-1, 3.4.1.4.1-2, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 32 to 35, 38, 39-4, 40, 41, PH4-2</p>
7,583,579		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.1, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.4.2, 3.4.1.7, 3.4.1.8, 4.1.4.1  <i>Figs.:</i> 2.2.1-1, 3.2.7-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 33 to 35, 39-4, 40, 41, PH4-2</p>
7,636,288		4	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1.6, 2.2.1, 3.2, 3.2.4, 3.2.7, 3.2.10, 3.4.1.1, 3.4.1.2, 3.4.1.2.1, 3.4.1.2.2, 3.4.1.3, 3.4.1.4, 3.4.1.4.1, 3.4.1.4.2, 3.4.1.7, 3.4.1.8, 4.1.4.1  <i>Figs.:</i> 2.2.1-1, 3.2.10-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-1, 3.4.1.8-1, 4.1.4-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.2.2-2, 3.4.1.4.1-1, 3.4.1.4.1-2, 3.4.1.8-1  <i>Pages:</i> PH1-1, 5 to 7, PH2-16, 25, PH3-2, 4, 8, 13, 27 to 29, 32 to 35, 38, 39-4, 40, 41, PH4-2</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	DVD-R Specification
4,703,494		21	<p><b>DVD-R, Part 1 (v. 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> PH-61, PH-72 to 73, PH.75-1</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, PH3-10, 11, 13</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, PH3-11, 12, 15</p>

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MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,993,029		1	<p><b>DVD-R, Part 1 (v. 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> PH-1, 18, 34, 37, 45, 62, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 7</p>

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MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,537,652	CA 2,045,948; MY 110,229	8	<p><b>DVD-R, Part 2 (v. 1):</b>  <i>Secs.:</i> 1.1, 2.2, 2.3, 2.5, 2.5.1, 2.6.7, 3.2, 3.3, 3.3.1, 3.4, 3.4.1, 3.5, 3.5.1  <i>Annex:</i> B  <i>Figs.:</i> 2.2-1, 2.3-1  <i>Tables:</i> 2.5.1-1, 2.6.7-1, 3.2-1, 3.3.1-1, 3.4.1-1, 3.5.1-1  <i>Pages:</i> FS-1, 16 to 18, 23, 34, 35, 54 to 58, 60 to 62, 65, 68 FSX-13, 14</p> <p><b>DVD-R, Part 2 (v. 2 Auth):</b>  <i>Secs.:</i> 1.1, 2.2, 2.3, 2.5, 2.5.1, 2.6.7, 3.2, 3.3, 3.3.1, 3.4, 3.4.1, 3.5, 3.5.1  <i>Annex:</i> B  <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, 3.3.1-1, 3.4.1-1, 3.5.1-1  <i>Pages:</i> FS1-1, FS2-2 to 4, 9, 20, 21, FS3-2 to 6, 8 to 10, 12, 15, FSX-B1, B2</p> <p><b>DVD-R, Part 2 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 2.2, 2.2.1, 2.2.2, 2.3, 2.3.1, 2.3.2, 2.5, 2.5.1, 2.6.7, 3.2, 3.2.1, 3.2.2, 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> 2.2.1-1, 2.2.2-1, 2.3.1-1, 2.3.2-1  <i>Tables:</i> 2.5.1-1, 2.6.7-1, 3.2.1-1, 3.2.2-1, 3.4.1-1, 3.6.1-1, 3.6.2-1, 3.7.1-1  <i>Pages:</i> FS1-1, FS2-2 to 9, 14, 25, 26, FS3-2 to 5, 17, 18, 23, 24, 27, 28, 31, 39, 40, 42, 43, 51, FSX-D1, D2</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
6,163,522		3	<p><b>DVD-R, Part 1 (v. 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  <i>Figs.:</i> 2.2.7.3-1, 2.2.7.3-2, 4.1.4-1, 4.2.1-1, 4.2.1-3  <i>Pages:</i> PH-15, 31, 51, 55, 56, 58, 61, 72, 95, 96, 98, 99, 101, 103</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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  <i>Figs.:</i> 2.2.7.3-1, 2.2.7.3-3, 4.1.4-1, 4.2.1-1, 4.2.1-3  <i>Pages:</i> PH2-1, 16, 34, 38, 39, 41, PH3-1, 10, PH4-1 to 6, 9</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 2.1.1, 2.1.6.4, 2.2.6.7, 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, 11, PH4-1 to 6, 9</p>

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MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
6,438,079		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5.19, 1.5.43, 1.5.46, 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, 2.2.7.3-2, 3.2.9-1, 4.2.1-1, 4.2.1-4, 4.2.2-2, M-1, M-2  <i>Pages:</i> PH-1, 2, 6, 9, 34, 35, 38, 52, 53, 55, 56, 58, 72, 97, 99 to 101, PHX-26</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 2.2.7.3-2, 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, 36, 38, 39, 41, PH3-10, PH4-3, 6, PHX-M1, M2</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5, 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, 7, 10, 11, PH2-19, 20, 23, 35 to 38, 40, PH3-11, PH4-3, 6, PHX-M1, M2</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
6,466,530		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5.19, 1.5.43, 1.5.46, 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, 2.2.7.3-2, 3.2.9-1, 4.2.1-1, 4.2.1-4, 4.2.2-2, M-1, M-2  <i>Pages:</i> PH-1, 2, 6, 9, 34, 35, 38, 52, 53, 55, 56, 72, 97, 99 to 101, PHX-26</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 2.2.7.3-2, 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, 36, 38, 39, 41, PH3-10, PH4-3, 6, PHX-M1, M2</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5, 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, 2.2.7.3-2, 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, 7, 10, 11, PH2-19, 20, 23, 35 to 38, 40, PH3-11, PH4-3, 6, PHX-M1, M2</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

MITSUBISHI ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
6,493,306		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5.19, 1.5.43, 1.5.46, 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, 4.2.1-4, 4.2.2-2, M-1, M-2  <i>Pages:</i> PH-1, 2, 6, 9, 34, 35, 38, 52, 53, 55, 56, 72, 97, 99 to 101, PHX-26</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 36, 38, 39, PH3-10, PH4-3, 6, PHX-M1, M2</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5, 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, 7, 10, 11, PH2-19, 20, 23, 35 to 38, PH3-11, PH4-3, 6, PHX-M1, M2</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,425,637		1	<p><b>DVD-R, Part 1 (v. 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  <i>Annex:</i> K  <i>Fig.:</i> 2.2.3.8.1-1  <i>Table:</i> 4.2.3.6-4  <i>Pages:</i> PH-2, 15, 18, 45 to 47, 63, 75-2, 110, 111, PHX-22</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 14, PH4-17, 18, PHX-K1</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 16, PH4-17, 18, PHX-K1</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,630,140	EP 124,770 (DE, FR, GB)	1	<p><b>DVD-R, Part 1 (v. 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> PH-45, 61 to 63, 69, 95, 96, 103</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
4,728,929		1	<p><b>DVD-R, Part 1 (v. 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> PH-72, 73, 75-1, 75-2, 76, 78 to 85</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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> PH3-10, 11, 13 to 15, 17 to 24</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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> PH3-11, 12, 15 to 17, 19 to 26</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,185,792		2	<p>DVD-R, Part 2 (v. 1):  <i>Secs.:</i> 1.1, 3.9, 3.9.4  <i>Tables:</i> 3.9.4-1, 3.9.4-2  <i>Pages:</i> FS-1, FS-76, 80</p> <p>DVD-R, Part 1 (v. 1):  <i>Annex:</i> T  <i>Fig.:</i> T-1  <i>Page:</i> PHX-40</p> <p>DVD-R, Part 2 (v. 2 Auth):  <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, FS3-45, 49</p> <p>DVD-R, Part 1 (v. 2 Auth):  <i>Annex:</i> T  <i>Fig.:</i> T-1  <i>Page:</i> PHX-T1</p> <p>DVD-R, Part 2 (v. 2 Gen):  <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, FS3-45, 49</p> <p>DVD-R, Part 1 (v. 2 Gen):  <i>Annex:</i> T  <i>Fig.:</i> T-1  <i>Page:</i> PHX-T1</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,276,674		4	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.2, 2.1.1, 2.1.5.1, 2.1.6.11, 2.2.3.2, 3.1.1, 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> PH-2, 15, 28, 29, 31, 45, 61, 69, 72</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 1.2, 2.1.1, 2.1.5.1, 2.1.6.11, 2.2.3.2, 3.1.1, 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, PH3-1, 7, 10</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.2, 2.1.1, 2.1.5.1, 2.1.6.10, 2.2.3.2, 3.1.1, 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, PH3-1, 8, 11</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,331,620		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <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> PH-62, 72, 73, 75-1, 75-2</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <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, 10, 11, 13, 14</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <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, 11, 12, 15, 16</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,546,427		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <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> PH-62, 72, 73, 75-1</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <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, 10, 11, 13</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <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, 11, 12, 15</p>
5,636,194		1	<p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 1.1, 1.2, 1.6, 2.1.3.2, 2.2.3.2, 2.2.3.8.1, 2.2.3.8.2, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 2.2.3.8.1-1, 2.2.3.8.2-1, K-1  <i>Tables:</i> 4.2.3.6.3-1 to 4.2.3.6.3-6  <i>Pages:</i> PH1-1, 2, 6, 8 to 10, 12, 13, PH2-4, 28 to 30, PH4-17 to 20, PHX-K1</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5, 2.1.3.2, 2.2.3.2, 2.2.3.8.1, 2.2.3.8.2, 4.2.3.6.3  <i>Annex:</i> K  <i>Figs.:</i> 2.2.3.8.1-1, 2.2.3.8.2-1, K-1  <i>Tables:</i> 4.2.3.6.3-1 to 4.2.3.6.3-6  <i>Pages:</i> PH1-1, 2, 5, 7, 8, 11, 12, PH2-4, 28 to 30, PH4-18 to 21, PHX-K1</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,790,487	EP 686,968 (DE, FR, GB); KR 254,155	13	<p><b>DVD-R, Part 1 (v. 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> PH-61 to 63, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 7</p>

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PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,808,979		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 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> PH-1, 2, 15, 18, 34, 35, 38, PHX-15, 17</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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</p>
6,590,846	EP 1,204,102 (DE, FR, GB)	1	<p><b>DVD-R, Part 1 (v. 2 Gen):</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, 3.4.1.4-1, 4.1.4-1  <i>Pages:</i> PH1-1, PH2-4, 32, PH3-2, 4, 5, 27 to 29, 34, 35, PH4-2</p>
6,944,107	EP 1,305,797 (DE, FR, GB, IT, NL); KR 602,407	30	<p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 2.1.1, 2.1.7.1, 4.1.4, 4.1.4.1, 4.3, 4.3.1, 4.3.1.1  <i>Annex:</i> L  <i>Figs.:</i> 2.1.1-1, 2.1.7.1-1, 4.1.4-1, 4.3.1-1, 4.3.1.1-1, L-1, L-2, L-3  <i>Pages:</i> PH1-1, PH2-1, 19, 22, PH4-1, 2, 24, PHX-L1</p>

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PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,016,281		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.5.1, 1.5.2, 1.5.3, 1.5.48, 2.1, 2.1.6.3, 2.1.6.6, 2.1.6.7, 2.1.6.11, 3.2.9  <i>Annex:</i> P.1, P.2, P.3.1  <i>Figs.:</i> 2.1.1-1, P.1-3, P.3-1, P.3-2  <i>Tables:</i> P.2-1, P.3-1  <i>Pages:</i> PH-1, 5, 9, 15, 31, 72, PHX-31 to 35</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1, 2.1.6.3, 2.1.6.6, 2.1.6.7, 2.1.6.11, 3.2.9  <i>Annex:</i> P.1, P.2, P.3.1  <i>Figs.:</i> 2.1.1-1, P.1-3, P.3-1, P.3-2  <i>Tables:</i> P.2-1, P.3-1  <i>Pages:</i> PH1-1, 6, 12, PH2-1, 16, PH3-10, PHX-P1 to P5</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 2.1, 2.1.6.3, 2.1.6.5, 2.1.6.6, 2.1.6.10, 3.2.9  <i>Annex:</i> P.1, P.2, P.3.1  <i>Figs.:</i> 2.1.1-1, P.1-2, P.3-1, P.3-2  <i>Tables:</i> P.2-1, P.3-1  <i>Pages:</i> PH1-1, 5, 11, PH2-1, 16, PH3-11, PHX-P1 to P5</p>
7,016,597		2	<p><b>DVD-R, Part 2 (v. 2 Gen):</b>  <i>Secs.:</i> 1.3.8, 1.3.29, 1.3.38, 2.2, 2.2.2, 3.2.2, 3.8.2  <i>Annex:</i> C.2, C.3  <i>Figs.:</i> 3.2.2-1, C.2-1, C.3-1  <i>Tables:</i> 3.2.2-1, C.3-1  <i>Pages:</i> FS1-3, 5, FS2-2, 3, FS3-4, 5, 44, FSX-C1, C3 to C6, C8</p>

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PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,130,840	KR 491,193	4	<p><b>DVD-R, Part 2 (v. 2 Gen):</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</p>
RE 37,801		9	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.5.3, 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> PH-1, 5, 38, 72, 73, 75-1</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, PH3-10, 11, 13</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 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, 5, PH2-23, PH3-11, 12, 15</p>

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PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
RE 39,771		28	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.5.5, 1.5.43, 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> PH-5, 9, 45, 61 to 63, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.5, 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> PH1-5, 10, PH2-28, PH3-1 to 3, 7</p>

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PANASONIC ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
RE 39,832		7	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.5.3, 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> PH-1, 5, 38, 72, 73, 75-1</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, PH3-10, 11, 13</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.1, 1.5, 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, 5, PH2-23, PH3-11, 12, 15</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC/TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	DVD-R Specification
5,732,066	TW 84,703	7	<p><b>DVD-R, Part 1 (v. 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> PH-61 to 63, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 7</p>
5,790,569	CA 2,190,985; KR 255,105; TW 89,851; VN 1,269	19	<p><b>DVD-R, Part 1 (v. 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> PH-62, 69, 71</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 7, 9</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 8, 10</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC/TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
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	<p><b>DVD-R, Part 1 (v. 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> PH-61 to 63, 68</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 6</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 7</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC/TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R 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	<b>DVD-R, Part 1 (v. 1):</b> <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> PH-62, 72, 73, 75-1, 75-2  <b>DVD-R, Part 1 (v. 2 Auth):</b> <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, 10, 11, 13, 14  <b>DVD-R, Part 1 (v. 2 Gen):</b> <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, 11, 12, 15, 16

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PANASONIC/TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R 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	<b>DVD-R, Part 1 (v. 1):</b> <i>Secs.:</i> 1.1, 1.2, 1.5.3, 1.5.27, 1.5.46, 3.2.9, 3.3., 3.3.1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH-1, 2, 5, 7, 9, 72, 73, 75-1, 75-2  <b>DVD-R, Part 1 (v. 2 Auth):</b> <i>Secs.:</i> 1.1, 1.2, 1.6, 3.2.9, 3.3, 3.3.1 <i>Figs.:</i> 1.5-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH1-1, 2, 6, 8, 9, PH3-10, 11, 13, 14  <b>DVD-R, Part 1 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.2, 1.5, 3.2.9, 3.3, 3.3.1 <i>Figs.:</i> 1.5-1, 3.2.9-1 <i>Table:</i> 3.2.9-1 <i>Pages:</i> PH1-1, 2, 5, 8, PH3-11, 12, 15, 16

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

PANASONIC/TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
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	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 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> PH-62, 63, 69, 71, 72</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 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, 7, 9, 10</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 3.2, 3.2.1, 3.2.2, 3.2.7, 3.2.8, 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, 8, 10, 11</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

SAMSUNG ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R 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; ID 19,621; IN 218,704; KR 382,639	1	<b>DVD-R, Part 2 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 2.1, 3.1, 3.2, 3.2.2, 3.6, 3.6.1, 3.6.2, 3.6.3, 3.8.2, 3.9 <i>Annex:</i> B to D <i>Fig.:</i> 3.2.2-1 <i>Tables:</i> 3.6.1-1, 3.6.2-1, 3.6.3-1, 3.6.3-2, B.3.2-1, C.3-1 <i>Pages:</i> FS1-1, FS2-1, FS3-1 to 4, 23 to 26, 28 to 30, 32, 33, 44, 45, FSX-B1 to B5, C1 to C8, D1, D2
6,775,803	ID 19,536; MY 135,303; PH 1-2002-000465	48	<b>DVD-R, Part 2 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.6, 2.1, 3.1, 3.2, 3.2.2, 3.5.2, 3.6, 3.6.1, 3.6.2, 3.6.3, 3.8.2, 3.9 <i>Annex:</i> B, C.1, C.2, C.3 <i>Figs.:</i> 3.2.2-1, C.2-1 <i>Tables:</i> 3.6.3-1, 3.6.3-2, B.3.2-1 <i>Pages:</i> FS1-1, 13, FS2-1, FS3-1, 2, 4, 22 to 26, 28 to 33, 44, 45, FSX-B1 to B5, FSX-C1, C3 to C5
6,868,054		1	<b>DVD-R, Part 1 (v. 2 Gen):</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>Fig.:</i> 3.4.1.4-1 <i>Table:</i> 3.4.1.4.1-1 <i>Pages:</i> PH1-1, PH3-27, 34, 35, 38-4
7,068,918	CN ZL 02140734.7; ID 19,637	1	<b>DVD-R, Part 2 (v. 2 Gen):</b> <i>Secs.:</i> 1.1, 1.6, 2.1, 3.1, 3.2, 3.2.2, 3.5.2, 3.6, 3.6.1, 3.6.2, 3.6.3, 3.8.2, 3.9 <i>Annex:</i> B, C.1, C.2, C.3 <i>Figs.:</i> 3.2.2-1, C.2-1 <i>Tables:</i> 3.6.3-1, 3.6.3-2, B.3.2-1 <i>Pages:</i> FS1-1, 13, FS2-1, FS3-1, 2, 4, 22 to 26, 28 to 33, 44, 45, FSX-B1 to B5, FSX-C1, C3 to C5

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

SAMSUNG ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,420,904		1	DVD-R, Part 1 (v. 2 Gen): <i>Secs.:</i> 1.1, 3.4.1.1, 3.4.1.2, 3.4.1.2.2, 3.4.1.4, 3.4.1.4.1 <i>Figs.:</i> 3.4.1.2-1, 3.4.1.4-1 <i>Table:</i> 3.4.1.4.1-1 <i>Pages:</i> PH1-1, PH3-27 to 29, 32-4, 34, 35, 38-4

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

SHARP ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,953,297		1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5.5, 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, 4.2.1-5, N-1  <i>Pages:</i> PH-1, 2, 5, 6, 9, 57, 62, 63, 72, 95 to 101, PHX-29, 30</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 1.1, 1.2, 1.5.5, 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, 4.2.1-5, N-1  <i>Pages:</i> PH1-1, 2, 6, 7, 12, PH2-39, PH3-2, 3, 12, PH4-1 to 6, PHX-N1, N2</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <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, 11, PH2-39, PH3-2, 3, 12, PH4-1 to 6, PHX-N1, N2</p>

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TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	DVD-R Specification
5,587,991	KR 191,944	4	<p>DVD-R, Part 1 (v. 1):  <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> PH-45, 72, 73, 75-2, 76</p> <p>DVD-R, Part 1 (v. 2 Auth):  <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, PH3-10, 11, 14, 15</p> <p>DVD-R, Part 1 (v. 2 Gen):  <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, PH3-11, 12, 16, 17</p>

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TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,881,046		1	<p><b>DVD-R, Part 1 (v. 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> PH-45, 62, 72, 73, 75-1, 75-2, 76, PHX-19 to 21</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</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, 10, 11, 13 to 15, PHX-J1 to J3</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</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, 11, 12, 15 to 17, PHX-J1 to J3</p>

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TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
5,956,306	EP 802,536 (DE, FR, GB)	1	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.2.7, 3.2.8, 3.2.9, 3.3.1  <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH-45, 62 to 64, 69 to 72, 75-2</p> <p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.2.7, 3.2.8, 3.2.9, 3.3.1  <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-28, PH3-2 to 4, 7 to 10, 14</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 2.2.3.2, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.2.7, 3.2.8, 3.2.9, 3.3.1  <i>Figs.:</i> 3.2.1-1, 3.2.7-1, 3.2.8-1, 3.2.9-1  <i>Pages:</i> PH2-28, PH3-2 to 4, 8 to 11, 16</p>
5,959,962		12	<p><b>DVD-R, Part 1 (v. 1):</b>  <i>Secs.:</i> 1.5.14, 1.5.50, 1.5.51, 2.1.1, 2.1.3.2, 2.1.3.8, 2.1.3.9, 2.2.1, 2.2.3.2, 2.2.3.8.1, 2.2.7.1, 3.1.4, 3.2.2, 3.3.3, 3.4.1, 3.4.1.1, 3.4.1.3, 3.4.1.3.1, 4.1.1, 4.1.4.1, 4.2.1, 4.2.2, 4.2.3, 4.2.3.5, 4.2.3.6, 4.2.3.7, 4.3.2.2  <i>Annex:</i> K, L, T  <i>Figs.:</i> 2.1.1-1, 2.1.4-1, 2.2.1-1, 2.2.4.1-1, 2.2.7.1-2, 3.1.4-1, 3.4.1.1-1, 3.4.1.3-1, 3.4.1.3-2, 4.1.4-1, 4.2.2-1, 4.2.3.5-1, 4.2.3.6-1, 4.2.3.7-1, 4.2.3.7-2, 4.2.3.7-3, G-2, T-1  <i>Tables:</i> 3.4.1.3.1-1, 3.4.1.3.1-2, 4.2.3-1, 4.2.3.5-1, 4.2.3.6-1, 4.3.2.2-1, 4.3.2.2-2  <i>Pages:</i> PH-6, 9, 15, 18, 20 to 22, 27, 42, 45, 46, 49, 52, 53, 61, 63, 77, 87, 89 to 93, 95 to 97, 101, 102, 106 to 114, 120 to 122, PHX-13, 22, 25, 40</p>

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TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
			<p><b>DVD-R, Part 1 (v. 2 Auth):</b>  <i>Secs.:</i> 1.6, 2.1.1, 2.1.3.2, 2.1.3.8, 2.1.3.9, 2.2.1, 2.2.3.2, 2.2.3.8.1, 2.2.7.1, 3.1.4, 3.2.2, 3.3.3, 3.4.1, 3.4.1.1, 3.4.1.3, 3.4.1.3.1, 4.1.1, 4.1.4.1, 4.2.1, 4.2.2, 4.2.3, 4.2.3.5, 4.2.3.6, 4.2.3.6.1, 4.2.3.7, 4.3.2.2, 4.3.2.2.1  <i>Annex:</i> K, L, T  <i>Figs.:</i> 2.1.1-1, 2.1.4-1, 2.2.1-1, 2.2.4.1-1, 2.2.7.1-2, 3.1.4-1, 3.4.1.1-1, 3.4.1.3-1, 4.1.4-1, 4.2.2-4, 4.2.3.5-1, 4.2.3.6-1, 4.2.3.6-2, 4.2.3.7-1, 4.2.3.7-2, 4.3.2.2-1, G-2, T-1  <i>Tables:</i> 3.4.1.3.1-1, 3.4.1.3.1-2, 4.2.3-1, 4.2.3.5.2-1, 4.2.3.6.1-1, 4.3.2.2.1-1, 4.3.2.2.1-2  <i>Pages:</i> PH1-7, 13, PH2-1, 4, 6 to 8, 12, 25, 28, 29, 32, 35, 36, PH3-1, 3, 16, 25, 27 to 30, PH4-1 to 3, 6 to 8, 12 to 16, 21, 22, 26 to 28, PHX-G2, K1, L1, T1</p> <p><b>DVD-R, Part 1 (v. 2 Gen):</b>  <i>Secs.:</i> 1.5, 2.1.1, 2.1.3.2, 2.1.3.8, 2.1.3.9, 2.2.1, 2.2.3.2, 2.2.3.8.1, 2.2.7.1, 3.1.4, 3.2.2, 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, 4.2.2, 4.2.3, 4.2.3.5, 4.2.3.5.1, 4.2.3.5.2, 4.2.3.5.3, 4.2.3.6, 4.2.3.6.1, 4.3.2.2, 4.3.2.2.1, 4.3.2.2.2  <i>Annex:</i> K, L, T  <i>Figs.:</i> 2.1.1-1, 2.1.4-1, 2.2.1-1, 2.2.4.1-1, 2.2.7.1-2, 3.1.4-1, 3.4.1.1-1, 3.4.1.2-1, 3.4.1.4-1, 4.1.4-1, 4.2.3.5-1, 4.2.3.6-1, 4.2.3.6-2, 4.2.2-4, G-2, T-1  <i>Tables:</i> 3.4.1.2.2-1, 3.4.1.4.1-1, 3.4.1.2.2-1, 3.4.1.2.2-2, 3.4.1.4.1-1, 3.4.1.4.1-2, 4.2.3-1, 4.2.3.5.2-1, 4.2.3.6.1-1, 4.2.3.6.1-2, 4.3.2.2.1-1, 4.3.2.2.1-2  <i>Pages:</i> PH1-6, 12, PH2-1, 4, 6 to 8, 12, 25, 28, 29, 32, 35, 36, PH3-1, 3, 18, 27 to 32, 34 to 39, PH4-1 to 3, 6 to 8, 12 to 16, 27 to 29, PHX-G2, K1, L1 to L3, T1</p>

## SUMMARY REPORT OF ESSENTIAL DVD-R RECORDING PATENTS

TOSHIBA ESSENTIAL DVD-R RECORDING PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) – (U.S.)	DVD-R Specification
7,088,667  (2x speed)	CN ZL 02126986.6	10	DVD-R, Part 1 (v. 2 Gen): <i>Secs.:</i> 1.1, 1.2, 1.6, 2.1.3.2, 2.1.6.1, 2.2.3.2, 2.2.6.1, 3.4.1.4, 3.4.1.4.1, 4.2.3, 4.2.3.5, 4.2.3.5.1, 4.2.3.6, 4.2.3.6.3, 4.3.2.1, 4.3.2.2, 4.3.2.2.1 <i>Annex:</i> DD <i>Figs.:</i> 3.4.1.4-1, 4.3.2.1-1, 4.3.2.2-1, DD-1 <i>Tables:</i> 3.4.1.4.1-1, 4.2.3-1, 4.2.3.6-1, 4.2.3.6-2, 4.2.3.6.3-1 to 4.2.3.6.3-6, 4.3.2.2-1, 4.3.2.2.1-1 to 4.3.2.2.1-3 <i>Pages:</i> PH1-1, 1-2, 2, 6, PH2-4, 16, 28, 34, PH3-32-2, 32-3, 34 to 36, 38-3, 38-4, PH4-8, 12, 14, 15, 18 to 21, 25, 27 to 29, 29-2, PHX-DD1  DVD-R, Part 1 (v. 2 Gen)(2x-speed): <i>Secs.:</i> 3.1.3 <i>Figs.:</i> 3.1.3-1, 3.1.3-2 <i>Pages:</i> OS3-3, 4