

## SUMMARY REPORT OF ESSENTIAL DVD+R/+RW DISC PATENTS\*

JVC ESSENTIAL DVD+R DISC PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
5,862,115		4	<b>ECMA-349:</b> <i>Secs.:</i> 1, 4.12, 4.20, 13, 13.1, 13.1.1, 13.2, 14.1 <i>Figs.:</i> 10, 12 <i>Table:</i> 1 <i>Pages:</i> 1, 3, 20 to 22, 28

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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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MITSUBISHI ESSENTIAL DVD+R DISC PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
6,229,784		1	<b>ECMA-349:</b> <i>Secs.:</i> 14.4.2, 14.4.2.1, 15, 18.8, 18.8.1 <i>Tables:</i> 3, 8, 11 <i>Pages:</i> 32 to 34, 54, 55, 62, 63
6,529,451		1	<b>ECMA-349:</b> <i>Secs.:</i> 1, 13.1.1, 13.3, 13.6, 13.7, 14.4.2, 14.4.2.1, 16.1, 18.8, 18.8.1, 19 <i>Figs.:</i> 11, 13, 16, 22 <i>Tables:</i> 3, 8, 11 <i>Pages:</i> 1, 21, 23, 25, 26, 32 to 34, 54, 55, 62 to 64
7,227,815		1	<b>ECMA-349:</b> <i>Secs.:</i> 1, 13.3, 13.7, 15, 19, 21, 21.3 <i>Annex:</i> I.1, I.2 <i>Figs.:</i> 13, 28 <i>Table:</i> 8 <i>Pages:</i> 1, 23, 26, 54, 55, 64 to 66, 127, 128

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
5,790,487		1	<b>ECMA-349:</b> <i>Secs.:</i> 1, 4.12, 13.1, 13.1.1, 13.2, 14.1, 16.1 <i>Figs.:</i> 10, 11, 12, 22 <i>Table:</i> 1 <i>Pages:</i> 1, 3, 20 to 22, 28, 54
RE 37,801		6	<b>ECMA-349:</b> <i>Secs.:</i> 1, 4.1, 13, 13.4, 13.5, 13.6 <i>Figs.:</i> 14, 15, 16 <i>Table:</i> 2 <i>Pages:</i> 1, 2, 20, 24 to 26

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SAMSUNG ESSENTIAL DVD+R DISC PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
6,631,110		1	ECMA-349: <i>Secs.:</i> 1, 14.4.2, 14.4.2.2, 29.3, 29.3.1 <i>Annex:</i> G, G.1 <i>Fig.:</i> G.1 <i>Table:</i> 3 <i>Pages:</i> 1, 32, 33, 35 to 38, 82, 111, 112

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
5,870,375		1	ECMA-349: <i>Secs.:</i> 1, 4.8, 4.23, 7, 13, 13.1, 13.1.1, 13.3, 13.6, 13.7, 13.7.1, 14.1, 14.4, 14.4.1.1, 15, 16, 16.1 <i>Annex:</i> M <i>Figs.:</i> 1, 10, 11, 13, 16, 19, 22, M.1 <i>Table:</i> 8 <i>Pages:</i> 1, 5, 6, 20, 21, 23, 25 to 27, 29, 30, 54, 55

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-349 (DVD+R) Specification
5,587,991		1	ECMA-349: <i>Secs.:</i> 1, 2.1, 13.6, 13.8 <i>Table:</i> 2 <i>Pages:</i> 1, 25 to 28

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-364 (DVD+R DL) Specification
5,862,115		4	ECMA-364: <i>Secs.:</i> 1, 4.13, 4.22, 13, 13.1, 13.1.1, 13.2, 14.1 <i>Figs.:</i> 11, 13 <i>Table:</i> 1 <i>Pages:</i> 1, 3, 4, 22 to 24, 31

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-364 (DVD+R DL) Specification
5,586,107		1	<b>ECMA-364:</b> <i>Secs.:</i> 1, 4.11, 4.20, 4.22, 7, 14.4.2, 14.4.2.1, 18.8, 18.8.1 <i>Fig.:</i> 1 <i>Tables:</i> 3, 7, 11 <i>Pages:</i> 1, 3, 4, 6, 35, 37, 55, 67 to 69
5,610,901		1	<b>ECMA-364:</b> <i>Secs.:</i> 1, 4.11, 4.20, 4.22, 7, 14.4.2, 14.4.2.1, 18.8, 18.8.1 <i>Fig.:</i> 1 <i>Tables:</i> 3, 7, 11 <i>Pages:</i> 1, 3, 4, 6, 35, 37, 67 to 69
6,229,784		1	<b>ECMA-364:</b> <i>Secs.:</i> 14.4.2, 14.4.2.1, 15, 18.8, 18.8.1 <i>Tables:</i> 3, 7, 8, 11 <i>Pages:</i> 35, 37, 54 to 56
6,529,451		1	<b>ECMA-364:</b> <i>Secs.:</i> 1, 13.1.1, 13.3, 13.6, 13.7, 14.4.2, 14.4.2.1, 16.2, 18.8, 18.8.1, 19 <i>Figs.:</i> 12, 14, 17, 26 <i>Tables:</i> 3, 7, 11 <i>Pages:</i> 1, 23, 25, 27, 28, 35, 37, 55, 58, 59, 67 to 70
7,227,815		1	<b>ECMA-364:</b> <i>Secs.:</i> 1, 13.3, 13.7, 15, 19, 21, 21.4 <i>Annex:</i> I.1, I.2 <i>Figs.:</i> 14, 35 <i>Table:</i> 7 <i>Pages:</i> 1, 25, 28, 54, 55, 70, 72, 73, 137, 138



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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-364 (DVD+R DL) Specification
5,790,487		1	<b>ECMA-364:</b> <i>Secs.:</i> 1, 4.13, 13.1, 13.1.1, 13.2, 14.1, 16.2 <i>Figs.:</i> 11, 12, 13, 26 <i>Table:</i> 1 <i>Pages:</i> 1, 3, 22 to 24, 31, 58, 59
RE 37,801		6	<b>ECMA-364:</b> <i>Secs.:</i> 1, 4.1, 13. 13.4, 13.5, 13.6 <i>Figs.:</i> 15, 16, 17 <i>Table:</i> 2 <i>Pages:</i> 1, 2, 22, 26 to 28

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-364 (DVD+R DL) Specification
5,870,375		1	ECMA-364: <i>Secs.:</i> 2.1, 4.25, 7, 13, 13.1, 13.1.1, 13.3, 13.6, 13.7, 13.7.1, 14.1, 14.4, 14.4.1, 14.4.1.1, 16.2 <i>Annex:</i> M <i>Figs.:</i> 1, 11, 12, 14, 18, 20, 26, M.1 <i>Pages:</i> 1, 4, 6, 20, 22, 23, 25, 27 to 32, 58, 59, 153, 154

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-364 (DVD+R DL) Specification
5,587,991		1	ECMA-364: <i>Secs.:</i> 1, 2.1, 13.6, 13.8 <i>Table:</i> 2 <i>Pages:</i> 1, 27 to 30

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U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-337 (DVD+RW) Specification
5,862,115		4	ECMA-337: <i>Secs.:</i> 1, 4.12, 4.18, 13, 13.1, 13.1.1, 13.2, 14.1 <i>Figs.:</i> 10, 12 <i>Table:</i> 1 <i>Pages:</i> 1, 3, 19 to 21, 28

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MITSUBISHI ESSENTIAL DVD+RW DISC PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-337 (DVD+RW) Specification
5,561,656		1	<b>ECMA-337:</b> <i>Secs.:</i> 1, 4.10, 4.11, 4.18, 7, 9.1, 9.5, 13.5, 26.3, 26.3.1 <i>Annex:</i> G, G.1, G.2 <i>Figs.:</i> 1, 2, 15, G.1, G.2 <i>Pages:</i> 1, 3, 5 to 9, 23, 24, 69, 97, 98
6,229,784		1	<b>ECMA-337:</b> <i>Secs.:</i> 14.4.2, 14.4.2.1, 15, 17.11, 17.11.1 <i>Tables:</i> 3, 15, 16 <i>Pages:</i> 32, 33, 48, 51, 52
6,529,451		1	<b>ECMA-337:</b> <i>Secs.:</i> 1, 13.1.1, 13.3, 13.6, 13.7, 14.4.2, 14.4.2.1, 16.1, 17.11, 17.11.1, 18 <i>Figs.:</i> 11, 13, 16, 22 <i>Tables:</i> 3, 15, 16 <i>Pages:</i> 1, 20, 22, 24, 25, 32, 33, 48, 49, 51 to 54

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RE 37,801		6	ECMA-337: <i>Secs.:</i> 1, 4.1, 13, 13.4, 13.5, 13.6 <i>Figs.:</i> 14, 15, 16 <i>Table:</i> 2 <i>Pages:</i> 1, 2, 19, 23 to 25

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SAMSUNG ESSENTIAL DVD+RW DISC PATENTS			
U.S. Patent Number	Reported Counterpart(s)	Representative Claim(s) - (U.S.)	ECMA-337 (DVD+RW) Specification
6,862,256		1	ECMA-337: <i>Secs.:</i> 1, 9, 9.1, 9.2, 16, 22.3 <i>Tables:</i> 2, 15, 22 <i>Pages:</i> 1, 7, 8, 48, 63, 64

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5,870,375		1	ECMA-337: <i>Secs.:</i> 1, 4.8, 4.21, 7, 13, 13.1, 13.1.1, 13.3, 13.6, 13.7, 13.7.1, 14.1, 14.4, 14.4.1.1, 15, 16, 16.1 <i>Annex:</i> K <i>Figs.:</i> 1, 10, 11, 13, 16, 19, 22, K.1 <i>Table:</i> 15 <i>Pages:</i> 1, 3, 5, 6, 19 to 22, 24 to 26, 28, 29, 48, 49, 115, 116



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5,587,991		1	ECMA-337: <i>Secs.:</i> 1, 2.1, 13.6, 13.8 <i>Table:</i> 2 <i>Pages:</i> 1, 24 to 27

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5,586,107		1	<b>ECMA-374:</b> <i>Secs.:</i> 1, 4.11, 4.19, 7, 14.4.2, 14.4.2.1, 17.10, 17.10.1 <i>Fig.:</i> 1 <i>Tables:</i> 3, 6, 8 <i>Pages:</i> 1, 3, 5, 6, 32 to 35, 46, 51, 52
5,610,901		1	<b>ECMA-374:</b> <i>Secs.:</i> 1, 4.10, 4.11, 4.17, 4.19, 7, 14.4.2, 14.4.2.1, 17.10, 17.10.1 <i>Fig.:</i> 1 <i>Tables:</i> 3, 6, 8 <i>Pages:</i> 1, 3, 5, 6, 32 to 35, 51, 52
6,229,784		1	<b>ECMA-374:</b> <i>Secs.:</i> 14.4.2, 14.4.2.1, 15, 17.10, 17.10.1 <i>Tables:</i> 3, 6, 7, 8 <i>Pages:</i> 32 to 35, 46, 47, 51, 52
6,529,451		1	<b>ECMA-374:</b> <i>Secs.:</i> 1, 13.1.1, 13.3, 13.6, 13.7, 14.4.2, 14.4.2.1, 16.2, 17.10, 17.10.1, 18 <i>Figs.:</i> 12, 14, 17, 25 <i>Tables:</i> 3, 6, 8 <i>Pages:</i> 1, 21, 23 to 26, 32 to 35, 46, 48, 49, 51, 52, 54

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6,229,784		1	<b>ECMA-371:</b> <i>Secs.:</i> 14.4.2, 14.4.2.1, 15, 17.11, 17.11.1 <i>Tables:</i> 3, 7, 8 <i>Pages:</i> 33, 34, 48, 51, 52
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RE 37,801		6	<b>ECMA-371:</b> <i>Secs.:</i> 1, 4.1, 13, 13.4, 13.5, 13.6 <i>Figs.:</i> 14, 15, 16 <i>Table:</i> 2 <i>Pages:</i> 1, 2, 20, 24 to 26

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