

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
AT	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
AT	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
AT	157830*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
AT	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
AT	464748	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
AT	160252	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
AT	108587*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A
BE	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
BE	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
BE	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
BE	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
BE	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
BE	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
BE	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
BE	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
CH	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
CH	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
CH	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
CH	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
CH	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
CH	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
CH	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
CN	200410005357.5	Deblock Filtering	1	8.3.5.2.1, 8.6, 8.6.2, 8.6.4, Figs. 50, 77
CZ	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
DE	69024235.2*	B-pictures	1	4.12, 8, 10, Annex G, G.3, G.3.1
DE	69027710*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
DE	69030819.1*	B-pictures	1	1, 3.2, 4.12, 5.4, 8, 8.3.6.5, 8.3.6.5.3, 8.4, 10, 10.4, Fig. 4, Table 2

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
DE	69031045.5*	B-pictures	1	3.2, 4.12, 4.14, 5.4, 6, 7.1.1.4, 8.1.3, 8.1.3.3, 8.1.3.4, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, 8.3.6.2, 8.3.6.3, 8.3.6.2.1, 8.3.6.2.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, Annex D, Table 2, Figs. 3, 4, 36, 59
DE	69031107.9*	B-pictures	6	1, 3.1, 4.12, 5.2.2, 8.4.5, 8.4.5.1, Figure 8
DE	69127224*	Broken_link	2	1, 4.12, 5.4, 6.2.1, 6.2.2, Figure 36, Table 2
DE	69937462.6	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
DE	69941965	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
DE	19829468	Deblock Filtering	1	1, 7, 7.1, 7.1.1, 7.1.1.27, Annex H, H.1, Table 41, Figures 177, 178
DE	69030056.5*	Decoder buffer conformance	11	1, 4.12, 6.1.15.1, Annex C, C.1.1, J.2.1, Fig. 162
DE	69127504*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
DE	60302602.8	Fractional Sample Interpolation	9	3.2, 4.12, 8.3.5.2.1, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, Fig. 64

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
DE	60306011.0	Fractional Sample Interpolation	1	4.12, 8.3.5.2.1, 8.3.6.5.2, 8.3.6.5.2.1
DE	60310800	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.2, Figures 64, 65
DE	69109346*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
DE	69027820.9*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
DE	3855114*	Macroblock headers	1	4.12, 7.1.3.8, 7.1.3.11, 8.3.5.1, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2, 8.3.5.2.1, Annexes D, K, K.1, Tables 28, 252, Figures 185, 186
DE	69233466.1	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
DE	60307354.9	Motion Compensation	19	4.12, 6.2.6, 8, 8.3.5, 8.3.5.2.1, 8.3.5.3, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, 8.3.7, Annex J.1.11, Figs. 63,
DE	60309375.2	MVMODE	1	1, 4.12, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.1, 8.2, 8.3, 8.3.4.3, 8.3.8, 8.4, 9.1.1.48, 10.3.8, Fig. 67
DE	69813688.8	MVMODE	6	1, 4.12, 7.1.3.8, 7.1.1.32, 8.3.5.2.1, 9.1.1.46, 9.1.3.12, 10.3.5.4.2.1, Table 46

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
DE	69912527.8	MVTAB	1	1, 7.1.1, 7.1.3, 7.1.3.6, 7.1.3.11, 7.1.1.38, 8.3.4.5, 8.3.5.2.1, 8.3.6.5, 11.10, Table 51
DE	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
DE	60214248.2	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
DE	68925011*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
DE	69321781.2	Scanning pattern	10	4.12, 5.2.2, 7.1.4.6, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.7, 10.1.2.4, 10.1.2.5, Figures 44, 45, Table 73
DE	3767919.8*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
DE	60310368.5	Start codes	1	4.12, 7.1, 8, Annex E, E.1, E.1.1, E.2, Table 254,
DE	60332175.5	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
DE	3871998*	Transform selection	1	3.2, 4.12, 9.1.1.18, 10.5, 10.5.1, Annex D, Figures 4, 101

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
DE	69315203	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
DE	69434271.8	Variable length coding	1	3.2, 7.1.1.6, 7.1.4.6, 8.1, 8.1.3.1, 8.1.3.4, 8.1.3.6, 11.7, 11.8, 11.8.1, 11.8.2, Annex A, Tables 71, 72
DE	69434369	Variable length coding	5	1, 4.13, 7.1.1.4, 7.1.1.6, 7.1.4.1, 7.1.4.6, 8.1.1.2, 8.1.3.4, 8.1.3.5, 8.3, 8.3.4.9, 8.3.6.2.3, 11.7, 11.8, Tables 36, 39, 71, 72, 78, 79
DE	69715815.2	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
DE	69720558.4	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 7.1.4.10, 7.1.4.12, 7.1.4.13, 7.1.4.14, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
DE	69724841	Variable length coding	1	4.12, 7.1, 7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8, 8.1, 8.1.3.4, 8.1.3.5, 8.3.4.9, Figure 41, Tables 31, 58
DE	69735679.5	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Table 58
DE	69735680.9	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Tables 58, 177
DE	3750206*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
DK	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
DK	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
DK	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
DK	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
DK	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
DK	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
DK	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
DK	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
ES	2091790*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
ES	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
ES	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
ES	1359763	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.2, Figures 64, 65
ES	2254811	Fractional Sample Interpolation	9	3.2, 4.12, 8.3.5.2.1, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, Fig. 64
ES	2266665	Fractional Sample Interpolation	1	4.12, 8.3.5.2.1, 8.3.6.5.2, 8.3.6.5.2.1
ES	2235756	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
ES	1359768	Motion Compensation	19	4.12, 6.2.6, 8, 8.3.5, 8.3.5.2.1, 8.3.5.3, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, 8.3.7, Annex J.1.11, Figs. 63
ES	1359764	MVMODE	1	1, 4.12, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.1, 8.2, 8.3, 8.3.4.3, 8.3.8, 8.4, 9.1.1.48, 10.3.8, Fig. 67
ES	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
ES	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
ES	2081833*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
ES	2341357	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
ES	2111152	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
FI	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
FI	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
FI	98,421*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
FI	117,417	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
FI	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
FI	92127*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
FI	86241*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
FI	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
FR	0379217*	B-pictures	1	4.12, 8, 10, Annex G, G.3, G.3.1
FR	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
FR	0424026*	B-pictures	6	1, 3.1, 4.12, 5.2.2, 8.4.5, 8.4.5.1, Figure 8
FR	0572046*	B-pictures	1	1, 3.2, 4.12, 5.4, 8, 8.3.6.5, 8.3.6.5.3, 8.4, 10, 10.4, Fig. 4, Table 2
FR	0584840*	B-pictures	1	3.2, 4.12, 4.14, 5.4, 6, 7.1.1.4, 8.1.3, 8.1.3.3, 8.1.3.4, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, 8.3.6.2, 8.3.6.3, 8.3.6.2.1, 8.3.6.2.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, Annex D, Table 2, Figs. 3, 4, 36, 59
FR	0456433*	Broken_link	2	1, 4.12, 5.4, 6.2.1, 6.2.2, Figure 36, Table 2

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
FR	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
FR	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
FR	0431319*	Decoder buffer conformance	11	1, 4.12, 6.1.15.1, Annex C, C.1.1, J.2.1, Fig. 162
FR	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
FR	1353513	Fractional Sample Interpolation	1	4.12, 8.3.5.2.1, 8.3.6.5.2, 8.3.6.5.2.1
FR	1353514	Fractional Sample Interpolation	9	3.2, 4.12, 8.3.5.2.1, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, Fig. 64
FR	1359763	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.2, Figures 64, 65
FR	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
FR	0414193*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
FR	0290085*	Macroblock headers	1	4.12, 7.1.3.8, 7.1.3.11, 8.3.5.1, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2, 8.3.5.2.1, Annexes D, K, K.1, Tables 28, 252, Figures 185, 186
FR	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
FR	1359768	Motion Compensation	19	4.12, 6.2.6, 8, 8.3.5, 8.3.5.2.1, 8.3.5.3, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, 8.3.7, Annex J.1.11, Figs. 63
FR	0895425	MVMODE	6	1, 4.12, 7.1.3.8, 7.1.1.32, 8.3.5.2.1, 9.1.1.46, 9.1.3.12, 10.3.5.4.2.1, Table 46
FR	1359764	MVMODE	1	1, 4.12, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.1, 8.2, 8.3, 8.3.4.3, 8.3.8, 8.4, 9.1.1.48, 10.3.8, Fig. 67
FR	0967807	MVTAB	1	1, 7.1.1, 7.1.3, 7.1.3.6, 7.1.3.11, 7.1.1.38, 8.3.4.5, 8.3.5.2.1, 8.3.6.5, 11.10, Table 51
FR	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
FR	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
FR	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
FR	0580454	Scanning pattern	10	4.12, 5.2.2, 7.1.4.6, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.7, 10.1.2.4, 10.1.2.5, Figures 44, 45, Table 73
FR	2599577*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
FR	1468567	Start codes	1	4.12, 7.1, 8, Annex E, E.1, E.1.1, E.2, Table 254
FR	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
FR	0282135*	Transform selection	1	3.2, 4.12, 9.1.1.18, 10.5, 10.5.1, Annex D, Figures 4, 101
FR	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
FR	0987899	Variable length coding	1	3.2, 7.1.1.6, 7.1.4.6, 8.1, 8.1.3.1, 8.1.3.4, 8.1.3.6, 11.7, 11.8, 11.8.1, 11.8.2, Annex A, Tables 71, 72
FR	0987900	Variable length coding	5	1, 4.13, 7.1.1.4, 7.1.1.6, 7.1.4.1, 7.1.4.6, 8.1.1.2, 8.1.3.4, 8.1.3.5, 8.3, 8.3.4.9, 8.3.6.2.3, 11.7, 11.8, Tables 36, 39, 71, 72, 78, 79
FR	1100273	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Table 58

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
FR	1100274	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Tables 58, 177
FR	1104972	Variable length coding	1	4.12, 7.1, 7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8, 8.1, 8.1.3.4, 8.1.3.5, 8.3.4.9, Figure 41, Tables 31, 58
FR	0260748*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A
FR	0873018	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
FR	1100272	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 7.1.4.10, 7.1.4.12, 7.1.4.13, 7.1.4.14, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
GB	0379217*	B-pictures	1	4.12, 8, 10, Annex G, G.3, G.3.1
GB	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
GB	0424026*	B-pictures	6	1, 3.1, 4.12, 5.2.2, 8.4.5, 8.4.5.1, Figure 8
GB	0572046*	B-pictures	1	1, 3.2, 4.12, 5.4, 8, 8.3.6.5, 8.3.6.5.3, 8.4, 10, 10.4, Fig. 4, Table 2

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
GB	0584840*	B-pictures	1	3.2, 4.12, 4.14, 5.4, 6, 7.1.1.4, 8.1.3, 8.1.3.3, 8.1.3.4, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, 8.3.6.2, 8.3.6.3, 8.3.6.2.1, 8.3.6.2.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, Annex D, Table 2, Figs. 3, 4, 36, 59
GB	0456433*	Broken_link	2	1, 4.12, 5.4, 6.2.1, 6.2.2, Figure 36, Table 2
GB	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
GB	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
GB	2,329,090	Deblock Filtering	1	1, 7, 7.1, 7.1.1, 7.1.1.27, Annex H, H.1, Table 41, Figures 177, 178
GB	0431319*	Decoder buffer conformance	11	1, 4.12, 6.1.15.1, Annex C, C.1.1, J.2.1, Fig. 162
GB	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
GB	2,405,549	Direct mode	1	7.1.1.42, 7.1.3.12, 8.4.5, 8.4.5.1, 8.4.5.3, 8.4.5.4, Annex D.2, Figure 71, Table 252
GB	1353513	Fractional Sample Interpolation	1	4.12, 8.3.5.2.1, 8.3.6.5.2, 8.3.6.5.2.1

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
GB	1353514	Fractional Sample Interpolation	9	3.2, 4.12, 8.3.5.2.1, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, Fig. 64
GB	1359763	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.2, Figures 64, 65
GB	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
GB	0414193*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
GB	0290085*	Macroblock headers	1	4.12, 7.1.3.8, 7.1.3.11, 8.3.5.1, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2, 8.3.5.2.1, Annexes D, K, K.1, Tables 28, 252, Figures 185, 186
GB	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
GB	1359768	Motion Compensation	19	4.12, 6.2.6, 8, 8.3.5, 8.3.5.2.1, 8.3.5.3, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, 8.3.7, Annex J.1.11, Figs. 63
GB	0895425	MVMODE	6	1, 4.12, 7.1.3.8, 7.1.1.32, 8.3.5.2.1, 9.1.1.46, 9.1.3.12, 10.3.5.4.2.1, Table 46
GB	1359764	MVMODE	1	1, 4.12, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.1, 8.2, 8.3, 8.3.4.3, 8.3.8, 8.4, 9.1.1.48, 10.3.8, Fig. 67

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
GB	0967807	MVTAB	1	1, 7.1.1, 7.1.3, 7.1.3.6, 7.1.3.11, 7.1.1.38, 8.3.4.5, 8.3.5.2.1, 8.3.6.5, 11.10, Table 51
GB	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
GB	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
GB	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
GB	0580454	Scanning pattern	10	4.12, 5.2.2, 7.1.4.6, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.7, 10.1.2.4, 10.1.2.5, Figures 44, 45, Table 73
GB	0248711*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
GB	1468567	Start codes	1	4.12, 7.1, 8, Annex E, E.1, E.1.1, E.2, Table 254
GB	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
GB	0282135*	Transform selection	1	3.2, 4.12, 9.1.1.18, 10.5, 10.5.1, Annex D, Figures 4, 101

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
GB	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
GB	0873018	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
GB	0987899	Variable length coding	1	3.2, 7.1.1.6, 7.1.4.6, 8.1, 8.1.3.1, 8.1.3.4, 8.1.3.6, 11.7, 11.8, 11.8.1, 11.8.2, Annex A, Tables 71, 72
GB	0987900	Variable length coding	5	1, 4.13, 7.1.1.4, 7.1.1.6, 7.1.4.1, 7.1.4.6, 8.1.1.2, 8.1.3.4, 8.1.3.5, 8.3, 8.3.4.9, 8.3.6.2.3, 11.7, 11.8, Tables 36, 39, 71, 72, 78, 79
GB	1100272	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 7.1.4.10, 7.1.4.12, 7.1.4.13, 7.1.4.14, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
GB	1100273	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Table 58
GB	1100274	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Tables 58, 177
GB	1104972	Variable length coding	1	4.12, 7.1, 7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8, 8.1, 8.1.3.4, 8.1.3.5, 8.3.4.9, Figure 41, Tables 31, 58
GB	0260748*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
GR	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
GR	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
GR	3072428	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
GR	3025887	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
IE	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
IE	1,753,244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
IE	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
IT	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
IT	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
IT	1,863,295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
IT	52497 BE/97*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
IT	1359763	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.2, Figures 64, 65
IT	45749 BE/06	Fractional Sample Interpolation	9	3.2, 4.12, 8.3.5.2.1, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, Fig. 64
IT	45897 BE/06	Fractional Sample Interpolation	1	4.12, 8.3.5.2.1, 8.3.6.5.2, 8.3.6.5.2.1
IT	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
IT	0414193*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
IT	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
IT	1359768	Motion Compensation	19	4.12, 6.2.6, 8, 8.3.5, 8.3.5.2.1, 8.3.5.3, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, 8.3.7, Annex J.1.11, Figs. 63

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
IT	1359764	MVMODE	1	1, 4.12, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.1, 8.2, 8.3, 8.3.4.3, 8.3.8, 8.4, 9.1.1.48, 10.3.8, Fig. 67
IT	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
IT	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
IT	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figure 4, 59, Table 35
IT	67779 BE/91*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
IT	1468567	Start codes	1	4.12, 7.1, 8, Annex E, E.1, E.1.1, E.2, Table 254,
IT	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
IT	0282135*	Transform selection	1	3.2, 4.12, 9.1.1.18, 10.5, 10.5.1, Annex D, Figures 4, 101
IT	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
IT	51936 BE/94*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A
JP	3851317	AC coefficient prediction	1	4.12, 8.1.2, 8.1.2.7, 8.1.2.8, 8.1.2.9, 8.1.2.10, Annexes A, A.1, Figures 36, 38, 40, 47, Table 74
JP	4,077,354	Bicubic Interpolation	1	8.3.6.5, 8.3.6.5.2, 8.3.7, Figure 64
JP	2,695,244*	B-pictures	5	4.12, 8.3.6.2, 8.4, Figure 59
JP	2,828,095*	B-pictures	1	8.3.5.2.1, 8.4, 8.4.5.1, Figure 59
JP	2,969,782*	Broken_link	1	4.12, 6.2, 6.2.1, Tables 34-35
JP	4625411	Coded block pattern	1	7.1.3.1, 8.1.2.1, 11.5, Figure 34 and Table 70
JP	4673758	Coded block pattern	1	4.12, 7.1.3.1, 8.1.2, 8.1.2.1, 9.1.3.2, 10.1.1, 10.5.1, 11.5, Figures 23, 24, 34, 35, 101, 104 and Tables 27, 28, 70, 90, 93
JP	2,951,861*	Coded block pattern	3	7.1.1.39, 8.1.2.1, 11.6, Tables 52, 70, 169-172

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2,791,822*	Component optimization	1	8.1.3.4, Annexes A, D, D.1, K, Tables 71, 72, Figures 185, 186
JP	2728619	Deblock Filtering	7	7.1.1.27, 9.1.1.17, Table 42, Annexes H, H.1
JP	2920209	Deblock Filtering	1	Annex H, H.1, Figures 177, 178, 179
JP	3464908	Deblock Filtering	1	Annex H, H.1, Figures 177, 178, 179
JP	4094019	Deblock Filtering	2	4.12, 8.3.6.2, 8.6, 8.6.2
JP	4372197	Deblock Filtering	2	4.12, 8.3.6.2, 8.6, 8.6.2, Fig. 59
JP	4565010	Deblock Filtering	1	4.12, 8.3.6.2, 8.6, 8.6.2 and Figure 59
JP	2,787,599*	Decoder buffer conformance	1	Figures 162-63, Annex C, C.1.1, C.1.3
JP	3,162,110*	Decoding delay parameters	1	6.1.15, 6.2.12, Annexes C, C.1.1, Tables 13, 15, Figure 162

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2,562,499*	Field/frame Macroblock selection	1	3.1, 4.12, 10.5.1, Annex K.1
JP	3331351	Field/frame prediction selection	1	10, 10.3, 10.3.3, 10.3.6.2, 10.4, 10.7, 10.7.3, Fig. 124
JP	4,625,240	Fractional Sample Interpolation	10	8.3.6.5, 8.3.6.5.2 and Figures 64 and 65
JP	3,174,586*	Hierarchical picture coding types	1	4.12, 5.4, 7.1.1, 7.1.1.4, Tables 2, 33, 34, 35, Annex A
JP	4,199,973	Hypothetical reference decoder	1	4.12, 6.1.15, Annex C.1, C.2, C.3, C.3.2, C.5, C.6
JP	4489794	Hypothetical reference decoder	1	4.12, 6.1.15, 6.1.15.1, Annex C.1, C.2, C.3, C.3.1, C.3.2, C.5, C.6
JP	4249790	Intensity Compensation	4	7.1.1.32, 7.1.1.33, 8.3.4.3, Tables 46, 47, 49, 50
JP	4425563	Intensity Compensation	1	7.1.1.32, 7.1.1.33, 7.1.1.34, 7.1.1.35, 8.3.4.3, 8.3.8 and Figure 67
JP	4545388	Intensity Compensation	2	4.12, 6.1 6.1.1, 7.1.1.32, 7.1.1.33, 8.3.4.3, 8.3.8, Annexes J, J.1.1 and Tables 46 and 47

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2938412	Intensity compensation	11	8.3.8
JP	2,137,325*	Inter-frame prediction	3	3.2, 7.1.1.4, 8.4.5, 8.4.5.1, 8.4.5.2, 8.4.5.3, Tables 34, 35
JP	2,530,217*	Inter-frame prediction	2	3.2, 7.1.1.4, 8.1, 8.4
JP	2,072,631*	Inter-frame prediction	5	7.1.1.4, 8.1, 8.3, 8.4, 8.4.5, Table 35
JP	2924430	Interlace decoding	1	3.2, 3.3, 4.12, 10.7.3, 10.7.3.1.2, 10.7.4, Figs. 4, 6, 129
JP	3449370	Interlace decoding	1	10.3, 10.3.5, 10.4, 10.7, 10.7.3, Fig. 124
JP	3702178	Inverse quantization	2	3.2, 7.1.1.8, 8.1.3.8, Figs. 3, 4, 6
JP	4425561	Inverse transform	1	8.1.3.10 and Annex A, A.1, Figures 157, 159
JP	2,128,624*	Inverse transform	3	3.2, 8.1.3.8, Annex A.1, Fig. 3

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2,630,809*	Macroblock headers	1	5.2.2, 7.1.3.8, 8.3.5.1, 8.3.5.1.1, 8.3.5.2.1, Figure 8
JP	4364919	MBMODE	1	5.2.2, 7.1.1.32, 9.1.1.46, 9.1.1.47, 10.3.5.3, 10.3.5.3.1 and 10.3.5.3.2, Tables 107, 108, 111, 112, 144-59
JP	1,939,084*	Motion compensated prediction	1	4.12, 8.4, 10.4, 10.8
JP	3579013	Motion Vector prediction	1	8.3.5, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2.1, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.2, 8.3.5.4, Figs. 51-53, 56
JP	4142180	Motion Vector Prediction	1	5.2.2, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.3, 8.3.5.3.5, 8.3.5.4.1 and Table 29 and Figure 25, 51, 54, 55
JP	4184388	Motion Vector Prediction	6	5.2.2, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.3, 8.3.5.3.5, 8.3.5.4.1 and Table 29 and Figure 25, 51, 54, 55
JP	4184389	Motion Vector Prediction	2	5.2.2, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.3, 8.3.5.3.5, 8.3.5.4.1 and Table 29 and Figure 25, 51, 54, 55
JP	4427553	Motion Vector prediction	2	3.2, 4.12, 7.1.1.36, 8.3.3.2, 8.3.5.2.1, 8.3.5.3, Figures 3, 52, 53
JP	3060376	MQUANT	4	7.1.3.4, 8.1.3.8, 8.1.3.9, Figure 29

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2897763	MVVMODE	3	3.2, 7.1.1.32, Figures 16 - 19, Tables 19 - 22
JP	3277116	MVVMODE	5	3.2, 4.12, 7.1.1.32, 7.1.1.36, 7.1.3.8, 8.3.5.2.1, 8.3.5.4.1, 8.3.6.2, Figs. 3, 52, 53, 59, Tables 46, 47
JP	3531594	RFF (repeat first field flag)	1	4.12, 7.1.1.18, Annex I.2.3
JP	2,961,131*	RFF (repeat first field flag)	4	4.12, 6.1.8, 6.1.9, 6.1.13, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 8.3.3.1, 8.3.3.2, 8.4.5.1, 8.4.5.3, 8.4.5.9, Tables 22, 30, Annexes I.2.1, I.2.3
JP	3369422	Scanning pattern	1	3.2, 7.1.3.2, 8.1.3.4, 8.1.3.5, 8.1.3.6, 11.9, 11.9.1, Figs. 42-46, Tables 73, 233-34
JP	3442028	Scanning pattern	1	3.2, 7.1.3.2, 8.1.3.4, 8.1.3.5, 8.1.3.6, 11.9, 11.9.1, Figs. 43-46, Tables 73, 233-34
JP	3,689,334	Skipped Blocks	1	4.12, 7.1, 7.1.1, 7.1.1.37, 7.1.3.7, 8.3.4.4, 8.3.5.4.1, 8.7, 9.1, 9.1.1, 9.1.1.32, 9.1.3.7, Figures 16-19, 25, 26, 56, 102, 103, Tables 19-22, 29, 30, 70, 91, 92
JP	4610195	Skipped Macroblock	1	7.1.1, 7.1.1.37, 7.2, 8.3.4.4, 8.3.5, 8.3.5.3.6, 8.3.6.5, 8.7, Table 69
JP	4448334	Start codes	1	4.12, Annexes E.1.2, E.3, E.4, Table 254

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	3631488	Start codes and stuffing bits	1	8, 8.8, Annex E, E.1, E.1.1, E.2, Figure 92, Table 254
JP	3657954	Start codes and stuffing bits	1	Annex E, E.1, and E.2.
JP	3657955	Start codes and stuffing bits	1	8, 8.8, Annex E, E.1, E.1.1, E.2, Figure 92, Table 254
JP	3657956	Start codes and stuffing bits	1	8, 8.8, Annex E, E.1, E.1.1, E.2, Figure 92, Table 254
JP	3657957	Start codes and stuffing bits	1	8, 8.8, Annex E, E.1, E.1.1, E.2, Figure 92, Table 254
JP	3657967	Start codes and stuffing bits	1	Annex E, E.1, and E.2.
JP	3657968	Start codes and stuffing bits	1	8, 8.8, Annex E, E.1, E.1.1, E.2, Figure 92, Table 254
JP	3657969	Start codes and stuffing bits	1	Annex E, E.1, and E.2.
JP	3657970	Start codes and stuffing bits	1	Annex E, E.1, and E.2.

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	2977104	TFF (top field first flag)	1	7.1.1.17, 10.3.1
JP	2,534,534*	Transform selection	1	3.2, 9.1.1.18, 9.1.3.1, 10.5, 10.7.3, 10.8.6, Figures 94, 101, 102, 103, Tables 90, 91, 92
JP	2,633,793	Variable length coding	1	4.12, 7.1.4, 7.1.4.7, 7.1.4.9, 7.1.4.10, 7.1.4.11, 7.1.4.12, 7.1.4.14, 8.1.3.5, 8.1.3.6, 11.8, Figs. 3, 6, 36, 45, Tables 59-61
JP	2955363	Variable length coding	1	7.1.4.6, 8.1.3.4, 11.8
JP	3103383	Variable length coding	1	7.1.4.7, 7.1.4.8, 8.1.2.4, 8.1.2.5, 11.8, Figure 41, Tables 31, 58, 177-179
JP	3135061	Variable length coding	1	7.1.4.7, 7.1.4.8, 8.1.2.4, 8.1.2.5, 11.8, Figure 41, Tables 31, 58, 177-179
JP	3135062	Variable length coding	1	7.1.4.7, 7.1.4.8, 8.1.2.4, 8.1.2.5, 11.8, Figure 41, Tables 31, 58, 177-179
JP	3343554	Variable length coding	1	4.12, 8.1.2, 8.1.2.7, 8.1.2.8, 8.1.2.9, 8.1.2.10, Figs. 36, 47, Table 74
JP	3743960	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 8.1.2.4, 11.8.1, Fig. 41, Tables 31, 58, 177-81

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
JP	3743961	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 8.1.2.4, 11.8.1, Fig. 41, Tables 31, 58, 177-81
JP	3743962	Variable length coding	1	7.1.4.7, 7.1.4.8, 8.1.2.4, 8.1.2.5, 11.8, Figure 41, Tables 31, 58, 177-179
JP	2,711,665*	Variable length coding	1	7.1.4.6, 8.1.3.5, Figures 27, 28, 185, 186, Tables 177 - 178
KR	371129	AC coefficient prediction	1	3.2, 7.1, 8.1.3.2, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.7, 8.1.3.8, 8.1.3.9, Figs. 4, 38, 40, 42, 47, 48, Tables 31, 74
KR	593,344	Bicubic Interpolation	1	3.2, 7.1.1, 7.1.1.25, 7.1.1.32, 8.3.6.5, 8.3.6.5.2, 8.3.7, Figs. 3, 4, 16, 17, 18, 19, 64, Tables 19, 20, 21, 22, 46, 47, 48
KR	681,971	Bicubic Interpolation	24	7.1.1, 7.1.1.32, 8.3.6.5, 8.3.6.5.2, Figs. 16, 17, 18, 19, 64, Tables 19, 20, 21, 22, 46, 47, 48
KR	681,972	Bicubic Interpolation	30	7.1.1, 7.1.1.32, 8.3.6.5, 8.3.6.5.2, Figs. 16, 17, 18, 19, 64, Tables 19, 20, 21, 22, 46, 47, 48
KR	221,889*	Broken_link	1	3.2, 4.12, 5.2.2, 6.2.1, 6.2.2, 7.1.1.4, Fig. 4, Table 35
KR	303685	DC coefficient prediction	1	8.1.3, 8.1.3.1, 8.1.3.2, Figures 36, 37, 38, 39, 40

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	371130	DC coefficient prediction	1	8.1.3.1, 8.1.3.2, 8.1.3.3, 8.1.3.8, 8.1.3.10, Figures 36, 37, 38, 39, 40
KR	413979	DC coefficient prediction	1	8.1.3.2, Figures 38, 39, 40
KR	147549	Deblock Filtering	1	8.6, 8.6.1, Figures 75, 76
KR	155642	Deblock Filtering	1	8.6, 8.6.1, 8.6.4, Figures 75, 76, 80 - 83
KR	205293	Deblock Filtering	1	8.1.3, 8.1.3.9, 8.6, 8.6.4, J.1.9, Figs. 82-83
KR	237636	Deblock Filtering	1	8.5, 8.5.1, 8.5.2, Figure 74
KR	244290	Deblock Filtering	1	Annex H, H.1, Figures 177, 178, 179
KR	251549	Deblock Filtering	1	3.2, 8.5, 8.5.1, 8.5.2, Figures 2, 3, 70
KR	281099	Deblock Filtering	1	Annex H.1, Figures 177, 178, 179

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	304660	Deblock Filtering	1	3.48, 3.49, 7.3.5.1, 7.4.5.1, 7.4.5.3, 7.4.5.3.1, 8.4, 8.4.2.1, 8.4.2.2, 8.4.2.3, 8.5.1, 8.5.13, 8.7, 8.7.1, 8.7.2, 8.7.2.1, 8.7.2.2, Table 8-16
KR	584549	Deblock Filtering	2	8.3.6.3, 8.3.6.4, 8.6, 8.6.2, 8.6.4, Figure 77
KR	598369	Deblock Filtering	1	8.6, 8.6.4, Annex J.1.9, Figures 81, 82, 83
KR	602149	Deblock Filtering	5	8.6, 8.6.1, 8.6.4, Figures 80 - 83
KR	605290	Deblock Filtering	17	8.3.6.3, 8.3.6.4, 8.6, 8.6.2, 8.6.4, Figure 77
KR	612785	Deblock Filtering	5	8.6, 8.6.2, 8.6.4, J.1.9
KR	640937	Deblock Filtering	1	8.6, 8.6.4, Figures 81 - 83
KR	708202	Deblock Filtering	1	7.1.4.17, 8.1.2.1, 8.3.5.5, 8.6, 8.6.2, 8.6.4, 8.6.4.1, J.1.9, Figs. 34, 35, 77, 84
KR	785588	Deblock Filtering	11	8.3.5.1.1, 8.3.5.1.2, 8.3.5.2.1, 8.3.5.4, 8.3.5.5.1, 8.3.5.5.2, 8.3.6.2.2, 8.6, 8.6.2, 8.6.4.1, Annex J.1.9

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	785589	Deblock Filtering	10	4.12, 8.3.6.2, 8.3.6.4, 8.6, 8.6.2, Annex J.1.9
KR	839304	Deblock Filtering	1	4.13, 8.6, 8.6.4, Annex J.1.9, Figures 81, 82, 83
KR	885441	Deblock Filtering	1	8.6, 8.6.4, Annex J.1.9, Figures 81, 82, 83
KR	886192	Deblock Filtering	1	8.6, 8.6.4, Annex J.1.9, Figures 81, 82, 83
KR	239,837*	Decoder buffer conformance	1	3.2, 5.2.2, 5.4, 6.1.15, 6.1.15.1, 6.2.12, C.1.1, Figs. 5, 163, Table 2
KR	235988	Fractional Sample Interpolation	6	8.3.6.5.1, 8.3.6.5.2, 8.3.7, 9.1.1.12, 10.3.6.2.7, Figures 63, 64, 65
KR	617598	Fractional Sample Interpolation	1	8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, Figures 63 - 66
KR	757829	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, Figures 63, 64, 65, 66
KR	757830	Fractional Sample Interpolation	1	8.3.6, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, Figures 63, 64, 65, 66

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	757832	Fractional Sample Interpolation	1	8.3.6.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.4, 8.3.6.5, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, Figures 59, 63, 64, 65, 66
KR	578,432	Intensity compensation	4	3.2, 7.1.1, 7.1.1.32, 8.3.4.3, 8.3.8, Figures 3, 4, 16, 17, Tables 19, 20, 46, 47
KR	578,433	Intensity compensation	44	3.2, 7.1.1, 7.1.1.32, 8.3.4.3, 8.3.8, Figures 3, 4, 16, 17, 67, Tables 19, 20, 46, 47
KR	643,819	Intensity compensation	1	7.1.1.32, 7.1.1.34, 7.1.1.35, 8, 8.3.8, Figure 67, Tables 19, 20
KR	114697	Interlace decoding	1, 4	3.2, 8.1.3.10, 9.1.1.18, 9.1.3.1, 10, 10.5.1, 10.5.2, Figs. 4, 5
KR	679787	Interlace decoding	47	4.12, 5.2.2, 7.1.1.15, 7.1.1.17, 7.1.2, 7.1.2.2, 9.1.1.1, 9.1.1.4, 9.1.2, 10, Figs. 8, 22, 94, 95, 96, 97, Tables 26, 41
KR	77,808*	Inverse transform	4	3.2, 8.1.3, 8.1.3.1, 8.1.3.3, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.8, 8.1.3.10, 8.3.6.4, Annex A.1, Figs. 3, 4, 36, 37, 41, 42, 157-159
KR	665213	Macroblock quantization	21	3.2, 7.1.1.6, 7.1.1.31, 7.1.1.31.6, 8, 8.1.2.8, 8.1.2.10, J.1.13, Figures 3, 4, Table 36
KR	720004	Macroblock quantization	1	3.2, 7.1.1.6, 7.1.1.31, 7.1.1.31.6, 7.1.2, 7.1.2.2, 8.1.3.8, J.1.13, Figs. 4, 21, 22, Table 36

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	720005	Macroblock quantization	1	7.1, 7.1.1.6, 7.1.1.31, 7.1.1.31.2, 7.1.1.31.3, 7.1.1.31.4, 7.1.1.31.6, 7.1.2, 7.1.2.2, Annex J.1.13, Fig. 22, Tables 26, 36, 43, 44, 45
KR	635,410	Motion Compensation	9	8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, 8.3.6.5, 8.3.6.5.1, Annex J.1.11, Figs. 56, 63
KR	313870	Motion vector prediction	1	8.3.5.1, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2.1, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.2, Figures 51 - 53
KR	681,370	Motion vector prediction	70	9.1.3.12, 9.1.3.18, 10.3, 10.3.5, 10.3.5.1, 10.3.5.4.2, 10.3.5.4.2.2, 10.3.5.4.3, 10.3.5.4.3.3, 10.3.5.4.4, 10.3.5.4.4.1, Figs. 114, 121
KR	141705	Motion vectors	1	4.12, 8.3.6.5, 9.1.3.12, 10, 10.3.5.4, 10.3.5.4.2.1, 10.3.6.2.7, 10.4.5.7, 10.4.7
KR	148130	Overlap Smoothing	6	7.1.1.29, 8.1.3.3, 8.1.3.8, 8.1.3.10, 8.5, 8.5.2, Figure 74
KR	162196	Overlap Smoothing	1	7.1.1.6, 7.1.3.4, 8.1.3.1, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.5, 8.5.1, 8.5.2, Annex A.1, Figures 29, 74, 157-59
KR	178711	Overlap Smoothing	5	7.1.1.6, 7.1.1.29, 8.5.2, Figure 15
KR	525785	Overlap Smoothing	8	8.5, 8.5.1, 8.5.2, Figure 74

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	598367	Overlap Smoothing	6	8.5, 8.5.1, 8.5.2, Figure 74
KR	598368	Overlap Smoothing	1	8.5, 8.5.1, 8.5.2, Figure 74
KR	656296	Overlap Smoothing	1	3.2, 4.12, 8, 8.1, 8.3, 8.5, 8.5.1, 8.5.2, 8.6, Figs. 3, 4
KR	687845	Overlap Smoothing	1	8.5, 8.5.1, 8.5.2, Figure 74
KR	721022	Overlap Smoothing	1	8.5, 8.5.1, 8.5.2, Figure 74
KR	743818	Overlap Smoothing	1	3.2, 4.12, 7.1.1.4, 8, 8.5, 8.5.1, 8.5.2, 8.6, Figs. 3, 4
KR	804902	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
KR	845067	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
KR	153275	RFF (repeat first field flag)	3	3.2, 4.12, 6.1.8, 6.1.9, 6.1.13, 7.1.1.18, 7.1.1.19, 7.1.3.13, 7.1.3.14, 7.1.3.15, 8.4.5.3, Annexes I.2.1, I.2.3, Figure 4, Table 57

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	124164	Run-level coding	1	3.2, 8.1.3, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.8, 8.1.3.10, 10.1.2.4, 10.1.2.5, 10.1.2.7, 10.1.2.9, Annex A.1, Figures 3, 36, 41-46, 157-159
KR	83730	Scanning pattern	1	8.1.3.2, 8.1.3.6, 8.1.3.7, Figures 38 - 40, 44-47, Tables 73, 233 - 235
KR	685771	Start codes and stuffing bits	1	4.12, 7.1, 7.1.3.8, 7.1.4.1, 7.1.4.6, 7.1.4.8, 8.8, Annex E, J.1.16, Figs. 25, 27, 28, 92, Tables 29, 31, 32
KR	685772	Start codes and stuffing bits	1	4.12, 7.1, 7.1.3.8, 7.1.4.1, 7.1.4.6, 7.1.4.8, 8, 8.1.3.1, 8.1.3.4, 8.3.5.2.1, Annex E, J.1.16, Figs. 25, 27, 28, 37, 41, 50, Tables 29, 31, 32
KR	103834	Transform selection	4	7.1.3.10, 7.1.4.1.6, 8.3.4.7, 8.3.6.2.1, Tables 54-56, 62-64, Figure 60
KR	118698	Variable length coding	1	4.12, 7.1.4.6, 8.1.3, 8.1.3.4, Figures 3, 4, 36, 42
KR	155784	Variable length coding	1	8.1.3.1, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.3.6, 8.3.6.1, 8.3.6.1.5, 8.3.6.1.6, 8.3.6.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 11.8, Figs. 36, 41, 45, 59, Tables 76 to 79, 173 to 232
KR	157463	Variable length coding	1	8.1.3.1, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.3.6, 8.3.6.1, 8.3.6.1.5, 8.3.6.1.6, 11.8, Figs. 36, 41, 45, Tables 76, 77, 173 to 232
KR	162197	Variable length coding	1	7.1.4.10, 7.1.4.11, 7.1.4.12, 7.1.4.14, 8.1.3.4, 8.1.3.5, 8.1.3.6, 8.1.3.8, 8.1.3.10, 11.8, Figs. 36, 41, 128, Tables 59, 60, 61

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
KR	166715	Variable length coding	1	8.1.3.4, 8.3.6.1.6, 8.3.6.2.3, 8.3.6.2.4, 11.8, Figs. 27, 28, 41, 59, Tables 71, 72, 76, 77, 78, 79
KR	318055	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.9, 7.1.4.12, 7.1.4.14, 8.1.3.4, 8.1.3.5, 10.1.2.4, 11.8, Figures 41, 42, Table 58
KR	318057	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8.1.3.4, 8.1.3.5, 11.8, Figures 41, 42, Tables 31, 58, 177-179, 182-183
KR	318058	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8.1.3.4, 8.1.3.5, 11.8, Figures 41, 42, Tables 31, 58, 177-181
KR	318059	Variable length coding	1	7.1.4.6, 7.1.4.7, 7.1.4.8, 8.1.3.4, 8.1.3.5, 10.1.2.4, 11.8, Figures 41, 42, Table 58
KR	402541	Variable length coding	19	7.1, 8.1.3.4, 8.1.3.5, 11.8, Figures 41, 42, Table 31
KR	846778	Zigzag Scanning	14	8.3.5.2.1, 8.3.6, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, 11.9, Tables 233 to 245
LI	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
LI	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
LI	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
LI	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
LI	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
LI	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
LI	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
LU	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
LU	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
MC	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
NL	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
NL	0584840*	B-pictures	1	3.2, 4.12, 4.14, 5.4, 6, 7.1.1.4, 8.1.3, 8.1.3.3, 8.1.3.4, 8.3.6.5.1, 8.3.6.5.2, 8.3.6.5.3, 8.3.6.2, 8.3.6.3, 8.3.6.2.1, 8.3.6.2.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, Annex D, Table 2, Figs. 3, 4, 36, 59
NL	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
NL	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
NL	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1
NL	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
NL	0414193*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
NL	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
NL	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
NL	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
NL	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
NL	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
NL	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
NL	0873018	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
NL	1100272	Variable length coding	1	1, 4.12, 7.1.4.6, 7.1.4.7, 7.1.4.10, 7.1.4.12, 7.1.4.13, 7.1.4.14, 8.1.3.4, 9.1.4, 10.1.2.4, Figure 41, Table 58
NL	1100273	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Table 58
NL	1100274	Variable length coding	1	4.12, 7.1.4.6, 7.1.4.7, 7.1.4.8, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.1.3.4, 8.1.3.5, 11.8, Fig. 41, Tables 58, 177
NL	1104972	Variable length coding	1	4.12, 7.1, 7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8, 8.1, 8.1.3.4, 8.1.3.5, 8.3.4.9, Figure 41, Tables 31, 58
NL	0260748*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
NO	306,749*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
PT	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
PT	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
PT	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
PT	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32
SE	0397402*	B-pictures	7	1, 4.12, 8, 8.3.6, 8.3.6.5, 8.4.6, 10, 10.8.7
SE	1135934	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1.2.1, 11.5
SE	1863295	Coded block pattern	1	1, 4.12, 4.14, 7.1.3, 7.1.3.1, 8.1, 8.1.2.1, Figs. 34, 35, Table 70, 168
SE	0460751*	Decoding delay parameters	10	1, 6.1.15, 7.1, 7.1.1, 7.1.1.6, Annex C.1.1

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
SE	0443676*	Hierarchical picture coding types	1	3.2, 4.12, 7.1.1.4, 9.1.1.2, Annex D, Table 252, Figures 3, 4, 5
SE	0414193*	Inverse transform	4	1, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 7.1.1.31, 8.1.3, 8.1.3.3, 8.1.3.8, 8.1.3.9, 8.1.3.10, 9.1, 9.1.1.25, 10.1.2, 10.1.2.7, 10.1.2.9, Annex A, J.1.13, Figs. 3, 13, 14
SE	1091589	Motion compensated prediction	5	1, 4.12, 8.3.6.1.7, 8.3.6.2, 9.1.1.45, 10.3.3, Annex A.1, Fig. 59, 108
SE	1387585	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
SE	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
SE	0359334*	RFF (repeat first field flag)	3	1, 3.2, 4.12, 6.1.8, 7.1, 7.1.1.4, 7.1.1.17, 7.1.1.18, 7.1.1.19, 7.1.3.8, 7.1.3.11, Annex I.2.1, Figures 4, 59, Table 35
SE	0248711*	Skipped Blocks	1	1, 4.12, 5.2.2, 7.1.1.37, 7.1.3.7, 7.1.3.8, 7.1.3.9, 7.1.3.11, 7.1.3.13, 7.1.3.15, 7.2, 8.1.3.10, 8.3.4.4, 8.3.5.1, 8.3.5.4.1, 8.3.5.5, 8.7, 9.1
SE	1753244	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
SE	630547	Variable length coding	1	1, 4.12, 7.1.4.6, 8.1.3.3, 8.1.3.4, 8.1.3.8, 8.1.3.10, 8.3.6.3, 11.8, Annex A, A.1, Figure 41, Tables 31, 32

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
SE	0260748*	Variable length coding	1	4.12, 6.2, 7.1.4.6, 8.1.3.4, 8.3.6.1.7, 11.8, 11.8.1, Annex A
TR	1515567	Overlap Smoothing	1	1, 3.1, 4.12, 7.1.1, 7.1.1.4, 8.5, 8.5.1, 8.5.2, 8.6, Figure 74, Tables 33, 34
TR	200502315T4	Overlap Smoothing	1	1, 4.12, 8.5, 8.5.1, 8.5.2, 8.6
TR	201005782	Start codes	10	1, 4.12, 7.1, 7.1.2, Annex E, E.1, E.1.1, E.2, Table 256
US	7099515	AC Prediction	11	4.12, 7, 7.1, 7.1.1.28, 7.1.3.2, 7.2, 8.1.2.2, 8.1.3.7, 8.7, 9, 9.1, 9.1.1.19, Figs. 32, 47, Tables 18, 29, 91
US	7,394,941	AC/DC Coefficient Prediction	1	3.2, 4.12, 8.1.3, 8.1.3.2, 8.1.3.7, 10.1.2, 10.1.2.2, 10.1.2.6, 10.5, 10.5.2, 10.5.2.1, 10.5.2.2, Figs. 3, 4, 36, 38, 39, 40, 47, 48, 128
US	7,424,158	AC/DC Coefficient Prediction	1	3.2, 4.12, 8.1.3, 8.1.3.2, 8.1.3.7, 10.1.2, 10.1.2.2, 10.1.2.6, 10.5, 10.5.2, 10.5.2.1, 10.5.2.2, Figs. 3, 4, 36, 38, 39, 40, 47, 48, 128
US	7,444,029	AC/DC Coefficient Prediction	1	3.2, 4.12, 7.1, 8.1.3, 8.1.3.2, 8.1.3.3, 8.1.3.7, 8.1.3.8, 10.1.2, 10.1.2.2, 10.1.2.6, 10.5, 10.5.2, 10.5.2.1, 10.5.2.2, Figs. 3, 4, 36, 38, 39, 40, 47, 48, 128, Table 31
US	7305034	Bicubic Interpolation	1	3.2, 4.12, 7.1.1, 7.1.1.25, 7.1.1.32, 8.3.6.5, 8.3.6.5.2, 8.3.7, Figures 3, 4, 16, 17, 18, 19, 64, Tables 19, 20, 21, 22, 46, 47, 48

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	5223949	B-pictures	5	3.2, 5.4, 7.1.1.4, 8, 8.1, 8.3, 8.4, Figures 3 - 5, 36, 59, 71, Tables 2, 34, 35
US	5970175	B-pictures	1	1, 3.2, 4.12, 8.3.6.2, 8.3.6.3, 8.3.6.4, 8.3.6.5, 9.1, 10.3, 10.3.6.1, 10.3.6.2.7, 10.4, 10.4.5.5, 10.4.7, 10.8, Figures 4, 59, 124
US	6188794	B-pictures	1	1, 3.2, 4.12, 9.1, 10.4, 10.4.5.5, 10.8, Figures 4, 124
US	6307973	B-pictures	1	1, 3.2, 4.12, 9.1, 10.4, 10.4.5.5, 10.8, Figures 4, 124
US	5,103,307*	B-pictures	4	3.2, 4.12, 5.4, 7.1.1.4, 8, 8.1, 8.1.3, 8.3, 8.3.6, 8.3.6.1, 8.3.6.2, 8.4, 8.4.5.1, 8.4.5.3, 8.4.5.15, 8.4.6, Figures 3, 4, 5, 36, 59, 71, Tables 2, 33, 34, 35
US	Re. 34,965*	B-pictures	13	4.12, 5.4, 7.1.1.4, 7.1.3.14, 8.3.6.2, 8.3.6.5.3, 8.4, 8.4.5.1, 8.4.5.3, 8.4.5.15, Figures 5, 59, 71, Tables 2, 34, 35, 57
US	Re. 35,158*	B-pictures	16	4.12, 7.1.3.14, 8.4.1, 8.4.5.1, 8.4.5.3, 8.4.5.14, 8.4.5.15, Table 57
US	Re. 35,910*	B-pictures	7	3.2, 4.12, 5.4, 8, 8.1, 8.1.3, 8.3, 8.3.6.1, 8.3.6.2, 8.3.6.5.3, 8.4, 8.4.5.3, 8.4.5.15, Figures 3 - 5, 36, 59, 66, 71
US	Re. 37,222*	B-pictures	16	1, 3.2, 4.12, 8, 8.1, 8.1.1, 8.1.2, 8.1.3, 8.3, 8.3.2, 8.4, 8.4.5, 8.4.5.1, Figures 3, 4, 8, 36, 59, 71

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	6934331	Brightness compensation	5	1, 3.2, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8.3.8, Figures 3, 4, 67, Tables 46, 47
US	6563953	Coded block pattern	15	1, 3.2, 4, 7.1.3.1, 7.1.3.11, 8.1.2.1, 8.3.5.5, 8.3.5.5.1, 8.3.5.5.2, 11.5, 11.6, Figures 23-25, 35, 36, Tables 27-29, 70, 168-172
US	6735345	Coded block pattern	15	1, 3.2, 7.1.3, 7.1.3.1, 7.1.3.11, 8.1.2.1, 8.3.5.5, 8.3.5.5.1, 8.3.5.5.2, 11.5, 11.6, Tables 27-29, 70, 168-172, Figures 5, 23-25, 34-36
US	7054494	Coded block pattern	26	1, 3.2, 7.1.3, 7.1.3.1, 7.1.3.11, 8.1.2.1, 8.3.5.5, 8.3.5.5.1, 8.3.5.5.2, 11.5, 11.6, Tables 27-29, 70, 168-172, Figures 5, 23-25, 34-36
US	7127114	Coded block pattern	17	1, 3.2, 7.1.3, 7.1.3.1, 7.1.3.11, 8.1.2.1, 8.3.5.5, 8.3.5.5.1, 8.3.5.5.2, 11.5, 11.6, Figs. 5, 23-25, 34-35, 36, Tables 27-29, 70, 168-172
US	5,128,758*	Component optimization	11	3.2, 4.10, 5.2.1, 5.2.2, 8.1.2, 8.1.3, 8.1.3.1, 8.1.3.4, 8.3.5, 8.3.6, 8.3.6.1.6, Tables 71, 72, 76, 77, Figures 3 - 5, 7, 8, 36
US	5,179,442*	Component optimization	1	3.2, 4.10, 5.2.1, 5.2.2, 8.1.2, 8.1.3, 8.1.3.1, 8.1.3.4, 8.3.5, 8.3.6, 8.3.6.1.6, Tables 71, 72, 76, 77, Figures 3 - 5, 7, 8, 36
US	6215905	DC coefficient prediction	1	8.1.3, 8.1.3.1, 8.1.3.2, 8.1.3.9, Table 74, Figures 36, 37, 38, 40
US	7,437,008	DC Coefficient Prediction	1	3.2, 4.12, 8.1.3, 8.1.3.1, 8.1.3.2, Figs. 3, 4, 36, 37, 38, 39, 40, Table 31

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7738554	DC Differential	1	3.2, 7.1.4, 7.1.4.1, 7.1.4.3, 7.1.4.4, 8.1, 8.1.3.1, Figures 3, 4, 37
US	7426308	DC Predictor; intra block decode	1	4.12, 8.1.3.1, 8.3.6.1.3, 10.5, 10.5.1, 10.5.2, 10.5.2.1, 10.7, 10.7.3, Figures 38, 58, 128
US	Re. 40,177**	Deblock Filtering ** = replaces US 6,594,400 of which it is a reissue	1	3.2, 4.12, 6.2, 6.2.10, 8, 8.5, 8.5.1, 8.5.2, 10.9, 10.9.1, 10.9.2, J.1.15, Table 14, Figures 3, 4, 11, 74
US	5,384,849	Deblock Filtering	7	4.12, 6.1, 6.1.5, 7, 7.1, 7.1.1.27, 8, 9, 9.1, 9.1.1.17, 10, Annex H, H.1, Fig. 10, 177, 178, 179, Tables 3, 18, 20, 22, 82, 83, 84, 87, 88, 89
US	6028967	Deblock Filtering	1	7.1.4, 7.1.1.27, Annex H, H.1, Table 42, Figure 177
US	6115503	Deblock Filtering	1	3.2, 6.2, 6.2.5, 8.6, 8.6.1, 8.6.2, 8.6.4, 8.6.4.1, Annex J.1.9, Figs. 3, 4, 11, 75, 76 - 82, 84 - 88, Table 14
US	6240135	Deblock Filtering	1	4.12, 4.13, 7.1.1.6, 7.1.1.27, 7.1.4, Annex H, H.1, Table 42, Figures 178,179
US	7120197	Deblock Filtering	1	3.2, 4.12, 6.2.5, 8.6, 8.6.4, Annex J.1.9, Figures 3, 4, 80 - 82, Table 252
US	7,126,989	Deblock Filtering	1	3.2, 4.12, 6.2.5, 6.2.10, 8.3.6.2, 8.5, 8.5.1, 8.6, Annexes J.1.9, J.1.15, Figures 3, 4, 59, 74

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7233706	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7239755	Deblock Filtering	14	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7262886	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7277593	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7283681	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7283682	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7289682	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7305142	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7352812	Deblock Filtering	1	3.2, 6.2, 6.2.5, 8, 8.6, 8.6.2, 8.6.4, Annex J.1.9, J.2, Figs. 3, 4, 11, 78 to 83, Tables 14, 263

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7359569	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7359570	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7362913	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7362914	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7379616	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 177, 178, 179
US	7391921	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7391922	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7391923	Deblock Filtering	1	7.1.1.27, 7.1.4, Annexes H, H.1, Figures 177, 178, 179, Table 42
US	7394945	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7397965	Deblock Filtering	1	3.2, 4.12, 4.13, 6.2.5, 7.1.1.6, 8.6, 8.6.4, Annex H, H.1, J.1.9, Figures 3, 4, 81, 82
US	7403667	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7437015	Deblock Filtering	1	3.2, 4.12, 7.1.1.27, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7492960	Deblock Filtering	1	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178, 179
US	7561623	Deblock Filtering	1	3.2, 8.6, 8.6.2, 8.6.4, Annex J.1.9, Figures 3, 4, 77, 81, 82, 83
US	7630437	Deblock Filtering	1	3.2, 8.3.6.2, 8.6, 8.6.2, 8.6.4, Annex J.1.9, Figures 3, 4, 59, 77, 81, 82, 83
US	7787542	Deblock Filtering	12	3.2, 8.3.6.4, 8.3.6.5, 8.6, 8.6.2, Figures 3, 4
US	7801216	Deblock Filtering	1	3.2, 6.1, 6.1.5, 7.1.1.27, Annex H, H.2, H.2.1, H.2.2, H.2.3, H.2.3.1, Figures 4, 181, 182, Tables 3, 42
US	Re. 40,178	Deblock Filtering	21	3.2, 4.12, 7.1.1.6, Annexes H, H.1, Figures 3, 4, 177-179

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	Re. 40,179	Deblock Filtering	21	3.2, 4.12, 8.6, 8.6.4, Annexes H, H.1, Figures 81, 177-179
US	Re. 40,180	Deblock Filtering	21	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 81, 177-179
US	Re. 41,089	Deblock Filtering	27	8, 8.6, 8.6.2, 8.6.4, Figs. 78, 80, 81, 82, 83
US	Re. 41,400	Deblock Filtering	27	4.13, 7.1.1.6, 8, 8.6.2, 8.6.4, Figures 78, 80, 81, 82, 83, Table 36
US	Re. 41,402	Deblock Filtering	21	3.2, 4.12, Annexes H, H.1, Figures 3, 4, 177, 178
US	Re. 41,909	Deblock Filtering	21	3.2, 4.12, 4.13, 8, 8.3.4.1, 8.6, 8.6.4 and Figures 4, 78, 79, 80, 81, and 82
US	5,235,618*	Decoder buffer conformance	25	Annex C, C.1.1
US	5606539	Decoding delay parameters	1	1, 3.2, 5.2.2, 5.4, 6.1.15, 6.1.15.1, 6.2.12, Annexes C.1.1, C.6, Table 2, Figures 5, 163.
US	5,608,697*	Decoding delay parameters	1	1, 3.2, 5.2.2, 5.4, 6.1.15, 6.1.15.1, 6.2.12, Annexes C.1.1, C.6, Table 2, Figures 5, 163

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	5,844,867*	Decoding delay parameters	1	1, 5.2.2, 5.4, 6.1.1.5, 6.1.15, 6.1.15.1, 6.2.12, Annexes C.1.1, C.6, G.1, G.3, Table 2, Figures 163, 167
US	7266150	Direct mode	6	4.12, 5.4, 8.4.5.1, 8.4.5.3, 8.4.5.4, Table 2, Figures 69, 70, 71
US	7609763	Direct mode	1	1, 4.12, 7.1.1.14, 8.4, 8.4.4, 8.4.5.4, 9.1.1.40, 10.8, 10.8.3, 10.8.6.6, Figs. 69, 70, 71, Table 40
US	7630438	Direct Mode Motion Vectors	1	4.12, 10.4, 10.4.5, 10.4.5.1, 10.4.5.6, Figures 100, 125, 126, Table 89
US	7609762	Entry point start code	7	3.2, 4.12, 7.1.1.15, 8, 9.1.1.1, 9.1.1.42, 10, Annex G, G.3, Tables 41, 105
US	7839930	Entry point start code	32	3.2, 4.12, 5.2.2, 6.2, 8, 9.1.1.44, 9.1.1.45, 10, 10.1, 10.3, Annex G.3, G.3.3, Fig.169
US	7,839,933	Entry-point header syntax	1	3.2, 4.12, 5.1, 5.5.1, 6.1, 6.1.7, 6.1.9, 6.2, 6.2.13, 6.2.13.2, 7.1, 7.1.1.15, 8, 8.5, 9.1, 9.1.1.1; Figures 4, 8, 10 to 12, 15, 17, 19, 20, 94 to 97; and Tables 3, 14, 18, 20, 22, 23, 41, 82 to 85
US	7,924,921	Entry-point header syntax	4	3.2, 4.12, 5.2.2, 6.1, 6.2, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.9, 6.2.10, 6.2.11, 6.2.14, 7.1, Annex: J.1.9, J.1.11, J.1.12, J.1.13, J.1.14, J.1.15, J.1.19, Figs.: 4, 10, 11, Tables: 3, 14, 259
US	7,577,200	Extended Differential Motion Vector	1	6.2.14, 7.1.1.9, 8.3.5.2.1, 9.1, 9.1.1.26, 9.1.1.27, 9.1.1.34, 10.3.5.4.2, 10.3.5.4.2.1, Figs. 11, 95, 96, 99, 100, 113, Table 14, 37, 75, 83, 84, 88, 89, 96, 97, 100, 140 to 143

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	5,510,840	FCM (frame coding mode flag)	7	3.2, 5.1, 5.2.2, 6.1.9, 7.1.1.15, 9.1, 9.1.1, 9.1.1.1, 9.1.1.18, 10, 10.5, 10.5.1, 10.7, 10.7.3, Table 41, Figures 1, 2, 3, 94, 95, 96
US	5,539,466	Field/frame prediction selection	1	1, 4.12, 7.1.1.15, 8.3.6.2, 10.3, 10.3.2, 10.7, 10.7.3, 10.7.3.4, Annex A.1, Table 41, Figs. 59, 157-58
US	6,160,849	Field/frame prediction selection	1	1, 3.2, 10.5.2, 10.7, 10.7.3, 10.7.3.4, 10.7.4, 10.7.4.1, Figures 4-5
US	7,092,576	FIELDTX	1	4.12, 7.2, 8.7, 9, 9.1, 9.1.1.18, 9.1.3.1, Annex D.1, Fig. 32, Tables 82, 91, 92
US	7,590,179	Forward MB Mode	1	4.12, 9.1.1.53, 9.1.3, 9.1.3.8, 9.1.3.15, 9.1.3.19, 10.4, 10.4.5, 10.4.5.1, 10.4.5.3, Fig. 100, Table 89
US	6,728,317	Fractional Sample Interpolation	2	8.3.6.5, 8.3.6.5.2, Figure 65
US	7,110,459	Fractional Sample Interpolation	17	4.5, 4.10, 4.12, 8.3.6.5.2, Figs. 64, 65
US	7,620,109	Fractional Sample Interpolation	1	3.2, 4.12, 7.1.1, 7.1.1.32, 8.1.3.10, 8.3.6.5, 8.3.6.5.2, Figs. 3, 4, 16 to 19, 64, 65, Tables 19 to 22, 46 to 48
US	7,852,919	Frame/field start codes	1	3.2, 4.12, 5.2.2, 8, 10, Annexes G, G.3, G.3.3, G.4, G.5, Fig. 169

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	5,699,476*	Hierarchical picture coding types	5	1, 4.12, 5.4, 7.1.1.4, 8.3.6.2, 8.3.6.5.3, 8.4.6, 8.4.15, Tables 2, 33, 34, 35, Figures 59, 66
US	7,593,466	Hypothetical reference decoder	1	4.12, 6.1, 6.1.15, 6.1.15.1, 8, 10, Annex C, C.1, C.1.1, C.2, C.3, C.3.1, Figure 162, Tables 3, 13
US	7,646,816	Hypothetical reference decoder	25	4.12, 6.1, 6.1.15, 6.1.15.1, 8, 10, Annex C, C.1, C.1.1, C.2, C.3, C.3.1, C.6, Figure 162, Tables 3, 13
US	7,277,486	Intensity Compensation	1	1, 3.2, 4.12, 7.1, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8.3.4.3, 8.3.6.5, 8.3.8, Figs. 3, 4, 16, 17, 67, Tables 19, 20, 46, 47
US	7,463,684	Intensity Compensation	8	3.2, 4.12, 7.1, 7.1.1.32, 7.1.1.34, 7.1.1.35, 8.3.4.3, 8.3.6.5, 8.3.8, Figs. 3, 4, 16, 17, 67, Tables 19, 20, 46, 47
US	7,609,767	Intensity Compensation	14	3.2, 4.12, 7.1, 7.1.1.32, 7.1.1.33, 7.1.1.34, 7.1.1.35, 8, 8.3.4.3, 8.3.8, 10, Figures 16, 17, 67, Tables 19, 20, 46, 47, 49, 50, 67
US	7,664,177	Interlace BI Field decoding	1	4.12, 9.1.1, 9.1.1.42, 10.2, Figures 97, 98, 104, 106, Tables 85, 87, 93, 95, 105
US	7,079,694	Interlace decoding	1	3.2, 4.12, 8.1.3, 8.1.3.2, 8.1.3.3, 8.1.3.7, 8.1.3.8, 10.1.2, 10.1.2.2, 10.1.2.3, 10.1.2.6, 10.1.2.7, 10.5, 10.5.2, 10.5.2.1, 10.5.2.2, Figures 3, 4, 36, 38, 39, 40, 47, 48, 128
US	7,567,617	Interlace decoding	1	3.2, 4.12, 8.3.6.5, 10.3, 10.3.5.4.2.2, 10.3.5.4.3, 10.3.5.4.3.3, 10.3.5.4.3.4, 10.3.5.4.3.4.2, 10.3.5.4.4.1, 10.3.6.2.7, Figs. 4, 108, 114, 116, 118, 121

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,577,198	Interlace decoding	1	4.12, 8.3.6.5, 9.1.1.44, 9.1.1.45, 10.3, 10.3.3, 10.3.6.2, 10.3.6.2.7, Figs. 99, 109, 110, 117, Table 88
US	7,599,438	Interlace decoding	19	3.2, 4.12, 9.1.1.35, 9.1.3.2, 9.1.3.10, 9.1.3.11, 10, 10.3.5.1.2, 10.3.5.5, 10.4.5.1.2, 10.7.3.2, 10.8.6.1.5, Figs. 4, 102, 103, 105, 106, 111, Tables 70, 91, 92, 94, 95, 102, 116 to 131
US	7,606,308	Interlace decoding	1	3.2, 4.12, 7.1.1.32, 9.1.1, 9.1.1.46, 9.1.1.47, 9.1.3, 9.1.3.8, 10.3, 10.3.5.3, 10.3.5.3.1, 10.3.5.3.2, Figures 4, 105, Tables 94, 111, 112, 144 to 159
US	7,680,185	Interlace decoding	1	4.12, 7.1.1.15, 9.1.1, 9.1.1.1, 9.1.1.42, 9.1.3, 10.4, 10.4.5, 10.4.5.1, Figures 97, 100, 124, Tables 41, 85, 89, 105
US	6,681,050	Inverse quantization	1	3.2, 6.2, 6.2.11, 7.1, 7.1.1.6, 7.1.1.7, 7.1.1.8, 8, 8.1.3.8, 8.3.6.3, Annex J.1.19, J.2, Figures 3, 4, 11, 13, 15, Tables 14, 16, 18, 36, 259, 263
US	6,687,409	Inverse quantization	1	3.2, 6.2, 6.2.11, 8, 8.1.3.8, 8.3.6.3, Annex J.1.19, J.2, Figures 3, 4, 11, Tables 14, 259, 263
US	7,580,584	Inverse quantization	4	3.2, 4.12, 6, 6.2, 6.2.11, 7, 7.1, 7.1.1, 7.1.1.6, 7.1.1.8, 8.1.3.8, Annex J.1.19, Figs. 3, 4, 11, 13 to 19, Tables 14, 16 to 22, 36, 259
US	7,242,713	Inverse transform	13	4.12, 8, 8.1.3.10, 8.3.6.1.7, Annex A.1, Figures 157, 158, 159
US	5,021,879*	Macroblock headers	1	1, 3.2, 4.12, 5.2.2, 7.1.3, 7.1.3.7, 7.1.3.8, 8.1.3.8, 8.1.3.10, 8.3, 8.3.4.4, 8.3.5.2.1, 8.3.5.3.6, 8.3.5.5, 8.3.5.5.1, 8.3.5.5.2, 8.3.6, 8.3.6.1, 8.3.6.2, 8.3.6.3, 8.3.6.4, Figures 3, 4, 8, 25, 50, 56, 59, 156

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,606,311	Macroblock mode table (MBMODETAB)	7	3.2, 9.1.1.33, 10, 10.7, 10.7.3, 10.7.3.1.1, 10.7.3.1.2, 10.7.3.1.3, 10.7.3.1.4, 10.7.3.4, 11.4.3, 11.4.4; Figure 4; Tables 99,160 to 167
US	6,493,385	MBMODE	6	3.2, 4.12, 7.1.1.32, 9.1.1.3, 10, 10.3.4, 10.3.4.1, 10.3.4.2, 10.3.5.3.1, 10.3.5.3.2, 10.3.5.4.3.1, 10.3.5.4.3.2, 10.3.5.5, 10.3.5.5.3.1, 11.4.1, 11.4.2, Tables 46-48, 98, 111, 112, 144-159, Figure 4
US	7,167,590	Motion Compensation	2	3.2, 6.2, 8.1.3.8, 8.3.5.4.2, 8.3.6.3, 8.3.6.4, 8.3.6.5, Annex J.1.11, J.2, Figs. 3, 4, Tables 14, 263
US	7,194,136	Motion Compensation	6	3.2, 6.2, 6.2.11, 8.1.3.8, 8.3.5.4.2, 8.3.6.3, 8.3.6.4, 8.3.6.5, Annex J.1.19, J.2, Figs. 3, 4, 11, Tables 14, 259, 263
US	7,317,839	Motion Compensation	1	3.2, 4.12, 8.3.6.5, 10.3, 10.3.5.1.2, 10.3.5.4.4.1, 10.3.5.4.4.2, 10.3.5.4.4.2.2, 10.3.6.2, 10.3.6.2.7, Annex D.2, Figures 4, 121, 123, Table 252
US	7,340,102	Motion Compensation	4	3.2, 6.2, 6.2.11, 8.1.3.8, 8.3.5.4.2, 8.3.6.3, 8.3.6.4, 8.3.6.5, Annex J.1.11, J.1.19, J.2, Figs. 3, 4, 11, Tables 14, 259, 263
US	7,352,905	Motion Compensation	9	3.2, 4.12, 10.7, 10.7.3.1, 10.7.3.1.4, 10.7.3.5, 10.7.3.5.4, 10.7.3.5.7, 10.7.3.6, 10.7.3.7, Annex D.2, Figs. 4, 131, 132, 133, 141 to 144, 146, 147, 148, Table 252
US	5,467,086	Motion compensated prediction	19	3.2, 7.1.3.8, 7.1.3.11, 8.1.2.2, 8.3, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2.1, 8.3.6.1, 8.3.6.2, 8.3.6.5.3, Figures 3, 25, 36, 59, Tables 29, 31
US	7,408,990	Motion vector differential	11	1, 3.1, 3.2, 4.12, 7.1.1.38, 7.1.3, 7.1.3.8, 7.1.3.11, 8.3.5, 8.3.5.1, 8.3.5.1.1, 8.3.5.1.2, 8.3.5.2, 8.3.5.2.1, 11.10, Figs. 1, 3, 4, 25, 50, Tables 51, 246 to 249

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,620,106	Motion vector differential	6	3.2, 4.12, 9.1.3.12, 9.1.3.18, 10.3, 10.3.5.1.1, 10.3.5.1.2, 10.3.5.4.2, 10.3.5.4.2.2, 10.3.5.4.3, 10.3.5.4.3.4.2, 10.3.5.4.4.1, Figs. 4, 105, 114, 118, 121, Table 94
US	7,272,182	Motion vector prediction	8	3.2, 7.1, 7.1.3.9, 8.3.5.2, 8.3.5.2.1, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.2, 8.3.5.3.3, 8.3.5.3.5, Figures 3, 4, 25, 50 to 55, Tables 29, 75
US	7,310,372	Motion vector prediction	14	3.2, 7.1, 7.1.3.9, 8.3.5.2, 8.3.5.2.1, 8.3.5.3, 8.3.5.3.1, 8.3.5.3.2, 8.3.5.3.3, 8.3.5.3.5, 8.3.5.4.1, Figures 3, 4, 25, 50 to 55, and Tables 29, 75
US	7,616,692	Motion vector prediction	1	3.2, 4.12, 10.3, 10.3.5.4.2.2, 10.3.5.4.3, 10.3.5.4.3.3, 10.3.5.4.3.4, 10.3.5.4.3.4.2, 10.3.5.4.3.5, 10.3.5.4.4.1, Figures 4, 108, 114, 116, 118, 120, 121
US	7,623,574	Motion vector prediction	16	3.2, 4.12, 10.3, 10.3.5.4.2.2, 10.3.5.4.3, 10.3.5.4.3.3, 10.3.5.4.3.4, 10.3.5.4.3.4.2, 10.3.5.4.4.1, Figures 4, 108, 114, 116, 118, 121
US	7,852,936	Motion vector prediction	8	3.2, 4.12, 8, 9, 9.1, 10, 10.3.5.4.3.4.2, 10.4, 10.4.6, 10.4.6.1, Figs. 100, 106, 118, Tables 89, 95
US	7,924,920	Motion vector prediction	1	3.2, 4.12, 10, 10.7, 10.7.3, 10.7.3.1.2, 10.7.3.5, 10.7.3.5.3, 10.7.3.5.6, 10.7.3.5.7, Figs.: 4, 129, 133, 139, 140, 146, 147
US	7,499,495	Motion vector range	9	3.2, 4.12, 6.2, 6.2.7, 7.1.1, 7.1.1.9, 8.3, 8.3.5.4, 8.3.5.4.1, Annex J.1.12, Figs. 3, 4, 11, 16, 17, 56, Table 19, 20, 37
US	7,116,831	Motion vectors	5	3.2, 4.12, 6.2, 6.2.6, 8.3.5.4, 8.3.5.4.1, 8.3.5.4.2, 8.3.5.4.3, 8.3.5.4.4, 8.3.5.4.5, Annexes J.1.11, J.2, Figs. 3, 4, 11, 57, Tables 14, 263

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	4,864,393*	Motion vectors	1	1, 4.12, 8.3.5.4.3, 9.1.3.12, 10.3.5.4, 10.3.5.4.2.1, 10.7.3.6, 10.7.3.7, Figure 112
US	7,379,496	Multi-resolution Coding	1	4.12, 7.1.1.10, 8.1, 8.1.1.3, 8.3, 8.3.4.2, Annex J, J.1.10, Table 38
US	7,162,093	Overlap Smoothing	4	3.1, 4.12, 7, 7.1, 7.1.2, 7.1.2.1, 8.5.2, Fig. 22, Table 26
US	7,369,709	Overlap Smoothing	10	3.2, 4.12, 7.1.1.29, 7.1.1.30, 7.1.3.3, 8, 8.5, 8.5.2, 10, 10.9, 10.9.1, 10.9.2
US	7,412,102	Overlap Smoothing	9	1, 3.1, 3.2, 4.10, 6.2, 6.2.10, 7.1, 7.1.1.29, 7.1.1.30, 8.5, 8.5.2, 10.5, 10.5.2, 10.9, 10.9.2, Annex J.1.15, Figs. 1, 4, 11, 15, 74, 128
US	7,471,726	Overlap Smoothing	31	3.2, 6.2.10, 7.1.1.6, 7.1.1.29, 8.1.3.10, 8.5, 8.5.1, 8.5.2, Annex J.1.15, Figures 3, 4, 74
US	5,740,310	Picture header reference information	1	1, 7.1, 7.1.1.2, 7.1.1.16, Table 31, Figures 13, 23, 27
US	6,282,243	Prediction rounding control	38	3.2, 4.12, 8.3.6.5, 8.3.6.5.1 8.3.6.5.2, 8.3.6.5.3, 8.3.7, Figures 3, 4, 61-66
US	7,529,302	Prediction Type decoding	1	1, 3.2, 4.12, 9, 9.1, 9.1.1.53, 9.1.3.15, 9.1.3.19, 10.4, 10.4.4, 10.4.4.2, 10.4.5, 10.4.5.1, 10.4.5.1.2, 10.4.5.3, 10.4.5.5, 10.4.5.7, Figs. 4, 100, Table 89, 110

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,277,484	Quantization parameters	43	3.2, 4.13, 6.2.8, 7.1.1.6, 7.1.1.31, 7.1.1.31.6, 7.1.3.4, 8.1.3.8, Figs. 3, 4, Table 36, Annex J.1.13
US	7,502,415	Range Reduction syntax	10	3.2, 4.12, 7.1.1.3, 8.3.4.11, 8.3.6.2, 8.3.6.5, Annex J.1.17, Figs. 3, 16, 59, Table 19,
US	5,461,420	RFF (repeat first field flag)	6	1, 3.1, 4.12, 5.1, 6, 6.1, 6.1.8, 6.1.9, 6.1.13, 7.1.1.17, 7.1.1.18, Annexes I.1, I.2, I.2.3, Table 3, Figures 3, 4, 10
US	5,027,206*	RFF (repeat first field flag)	3	3.2, 6.1.8, 6.1.9, 6.1.13, 7.1.1.18, 7.1.1.19, 7.1.3.13, 7.1.3.14, 7.1.3.15, 8.4.5.1, 8.4.5.3, 8.4.5.9, 9.1.1.5, Annexes I.2.1, I.2.3, Figures 4, 5, 19, 26, Tables 22, 26
US	Re. 37,057	RFF (repeat first field flag); PANSCAN_FLAG	45	1, 3.2, 4.12, 5.2.2, 6.1, 6.1.6, 6.1.7, 6.1.8, 6.1.9, 6.1.13, 6.1.14, 6.1.14.1, 6.1.14.2, 6.2, 6.2.3, 6.2.13, 6.2.13.1, 6.2.13.2, 7, 7.1.1.19, 7.1.1.20, 7.1.1.21, 7.1.1.24, 8, 8.9, 8.9.2, 8.9.3, 10, Annexes I.2, I.4, I.4.1, I.5, Table 18, Figures 4, 5, 8, 10, 11, 12, 15, 93
US	5,072,295*	Saturation control	4	1, 3.2, 4.12, 4.13, 7.1.1.31, 8.1.3, 8.1.3.1, 8.1.3.3, 8.1.3.4, 8.1.3.5, 8.1.3.8, 8.1.3.10, 8.3.6.2, 9.1.1.25, 10.1.2, 10.1.2.1, 10.1.2.3, 10.1.2.4, 10.1.2.7, 10.1.2.9, 10.3, 11.7, 11.8, Annex A.1, Figures 3, 4, 36, 59, 159
US	5,990,960	Scanning order	4	3.1, 3.2, 4.12, 6.1.9, 7.1.1.15, 8.1.3.6, 8.3.6.2, 8.3.6.2.3, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, 8.3.6.5.3, 8.6.3.5, 9.1, 10, 10.3, 10.3.3, 10.3.5.4.2.2, 10.3.6.2, 10.3.6.2.4, 11.9.2, Figures 4, 43, 44, 59, 66, 108-110, Tables 41, 236, 242
US	6,097,759	Scanning order	4	3.2, 8.1.3.6, 8.3.2, 8.3.5.2.1, 8.3.6.2, 8.3.6.5, 8.3.6.2.5, Figures 3, 36, 44-46, 59, Table 73

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	Re. 37,858	Scanning order	5	3.2, 3.3, 4.12, 7.1.1.15, 8, 8.1.3.6, 8.3.6.2, 8.3.6.2.1, 8.3.6.2.5, 8.3.6.5, 9.1.1, 9.1.1.1, 9.1.1.18, 9.1.3.1, 9.1.3.8, 9.1.3.13, 10, 10.3.6.2, 10.3.6.2.1, 10.3.6.2.4, 10.5, 10.5.1, 10.7, 10.7.3, 10.7.3.4, 10.7.4, 10.7.4.1, Figures 4, 5, 43, 59, 61, 95, 128, Tables 41, 236-245
US	5,654,706	Scanning pattern	1	1, 3.2, 4.12, 7.1.3.2, 8.1.3.4, 8.1.3.5, 8.1.3.6, 11.9.1, Figures 3, 4, 36, 42, 46, Tables 73, 177 - 235
US	6,680,975	Scanning pattern	56	4.12, 4.14, 7.1.3.2, 8.1.2.2, 8.1.3, 8.1.3.2, 8.1.3.4, 8.1.3.6, 8.1.3.7, 10.1.1.2, 10.1.2.4, 10.1.2.5, 11.9.1, Figs. 36, 39, 40, 44 - 48, Tables 73, 233 - 235
US	7,292,657	Scanning pattern	1	4.12, 4.14, 7.1.3.2, 8.1.2.2, 8.1.3, 8.1.3.2, 8.1.3.4, 8.1.3.6, 8.1.3.7, 10.1.1.2, 10.1.2.4, 10.1.2.5, 11.9.1, Figures 36, 39, 40, 44-48, Tables 73, 233-235
US	7,688,894	Scanning pattern	1	3.2, 4.2, 4.12, 8, 8.1.3.6, 8.1.3.8, 8.3.6.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, 8.3.6.3, 8.3.6.4, 10, 11.9.2, Annex A, Figures 43, 59, 157, 158, 159, Tables 244
US	7,782,954	Scanning pattern	7	3.2, 4.12, 8, 8.3, 8.3.6.2, 8.3.6.2.3, 8.3.6.2.4, 8.3.6.2.5, Figures 4, 59, Table 241
US	7,200,275	Skipped Blocks	1	7.1, 7.1.1.37, 7.2, 7.2.2, 7.2.3, 8.3.4.4, 8.7, 8.7.2, 8.7.3, 8.7.3.6, 8.7.3.7, Figs. 32, 91, Tables 19, 20, 69
US	4,796,087*	Skipped Blocks	1	3.1, 4.12, 7.1.3.7, 8.3.4.4, 8.7, 8.7.3, Figures 16, 17, 25.
US	7,379,607	Skipped Macroblock	4	4.12, 4.15, 5.2.2, 7.1, 7.1.1.37, 7.2, 7.2.2, 7.2.3, 8, 8.3, 8.3.4.4, 8.3.5, 8.3.5.1, 8.3.5.3.6, 8.3.6, 8.7, 8.7.2, 8.7.3, 8.7.3.6, 8.7.3.7, Figs. 32, 91, Table 69

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,555,167	Skipped Macroblock	1	1, 3.2, 4.12, 7.1.3.2, 7.1.3.3, 7.1.3.6, 7.1.3.7, 7.1.3.12, 7.2, 7.2.2, 7.2.3, 8.7, 8.7.3, 8.7.3.1, 8.7.3.2, 8.7.3.3, 8.7.3.4, 8.7.3.5, 8.7.3.6, 8.7.3.7, Figs. 3, 4, 32, Table 69
US	5,930,395	Slice header	1	3.1, 7.1.2.2, Figure 22
US	6,408,098	Slice header	1	3.1, 7.1.1, 7.1.2, 7.1.2.2, Figure 22, Table 26
US	6,621,931	Slice header	1	3.1, 7.1.1, 7.1.2, 7.1.2.2, Figures 17, 22, Tables 20, 26
US	6,701,018	Slice header	1	3.1, 7.1.1, 7.1.2, 7.1.2.2, Figures 17, 22, Tables 20, 26
US	7,248,740	Start codes	1	3.2, 4.12; Annex E, E.1, E.1.1, E.2, Figs. 3, 4, Table 254
US	7,505,485	Start codes	12	3.2, 4.12, Annex E, E.1, E.1.1, E.2, Figs. 3, 4, Table 254
US	7,839,895	Start codes	9	1, 3.2, 4.12; Annex E, E.1, E.1.1, E.2; and Figs. 4, 254
US	6,571,361	Start codes and stuffing bits	19	3.1, 4.12, 7.1, 7.1.1, 7.1.2, 7.1.2.2, 8.8, Annex E, E.2, J.1.16, Figures 27-28, 92, Table 31-32, 254

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,321,995	Start codes and stuffing bits	1	3.1, 4.12, 7.1, 7.1.1, 7.1.2, 7.1.2.2, 8, 8.1.3.1, 8.1.3.4, 8.3.5.2.1, 8.8, Annex E, E.2, J.1.16, Figures 1, 25-27, 28, 37, 41, 50, 92, Tables 29, 31-32, 254
US	7,475,298	Start codes and stuffing bits	1	3.1, 4.12, 7.1, 7.1.2, Annex E, E.2, Figures 22, 25, 27, 28, Tables 26, 29, 31, 32
US	5,343,248	TFF (top field first flag)	1	1.0, 3.2, 4.12, 7.1.1.15, 7.1.1.17, 9.1.1.1, 9.1.1.4, Annex I.2.2, Tables 82 - 85, Figures 4 - 5
US	4,849,812*	Transform selection	1	3.2, 4.12, 7.1.4.1, 7.1.4.6, 7.1.4.8, 8.1.3.10, 9.1.1.18, 9.1.3.1, 9.1.4, 10.5.1, 10.5.2, 10.7.3.4, Annex A.1, Tables 160 - 161, Figures 4, 5, 36
US	7,830,963	Transform type syntax	1	1, 3.2, 4.12, 7.1.3, 7.1.3.10, 7.1.4, 7.1.4.16, 8.3.5.6, Tables 54, 55, 56, 62, 63, 64, Figs. 3, 4, 30, 31
US	6,345,123	Variable length coding	2	7.1.4.6, 7.1.4.7, 7.1.4.8, 7.1.4.15, 8.1.3.4, Figure 27, Tables 58, 177-181, 184-188
US	6,349,149	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figures 41, 42, Tables 58, 177 - 179
US	6,404,929	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figure 41, Tables 58, 177 - 179
US	6,490,372	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figures 41 - 42, Tables 58, 177 - 179

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(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	6,556,717	Variable length coding	2	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figures 41, 42, Tables 58, 177-179
US	7,469,011	Variable length coding	1	3.2, 4.12, 7.1, 7.1.4.6, 7.1.4.7, 7.1.4.10, 7.1.4.11, 7.1.4.12, 7.1.4.14, 8.1.3.4, Figs. 4, 27, 41, Tables 31, 58
US	4,901,075*	Variable length coding	8	1, 4.12, 8.1.3.4, 8.1.3.5, 8.1.3.9, 8.1.3.10, 11.8, 11.9, Tables 1, 177 - 183, Figures 3, 4, 36, 41, 42
US	Re. 39,167	Variable length coding	8	7.1.1.6, 8.1.3.1, 8.1.3.2, 8.1.3.3, 8.1.3.4, 8.1.3.5, 8.3.5, 8.3.5.2.1, 8.3.6.1, 8.3.6.1.6, 8.3.6.2.3, Table 36, 76, 77, 78, 79, Figures 27, 41, 42, 50
US	5,982,437	Variable length coding	1	4.12, 7.1.1.6, 8.1.3.4, 8.1.3.8, 8.3.5.1.1, 8.3.5.1.2, 8.3.6.1.6, 8.3.6.1, 8.3.6.2, 8.3.6.2.3, 8.3.6.3, Figures 27, 28, 36, 59, Tables 19, 20, 71-72, 76-66
US	5,579,413	Variable length coding	1	3.2, 4.12, 7.1, 7.1.4.6, 8.1.3.6, 11.8 - 11.8.7, Annex A, Figures 3, 4, 13, 15, 43 - 46, Tables 18, 73, 177 - 232
US	6,574,369	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figure 41, Tables 58, 177-179
US	7,116,829	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Fig. 41, Tables 58, 177-179
US	7,289,670	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figs. 41, 42, Tables 58, 177, 178, 179

VC-1 Patent Portfolio License Cross-Reference Chart

(The following chart shows illustrative essential claims for each patent; other claims may also be essential.)

CTY	Patent No.	Description	Claim	Sections
US	7,379,606	Variable length coding	1	7.1.4.7, 8.1.3.4, 8.1.3.5, 11.8.1, Figs. 41, 42, Tables 58, 177, 178, 179
US	7,266,149	Variable-size Transform Decoding	43	4.12, 6.2, 6.2.9, 7.1, 7.1.1.40, 7.1.1.41, 7.1.3.10, 7.1.4.16, 8, 8.3, 8.3.3.2, 8.3.4.8, 8.3.5.6, 8.3.6.2, 8.3.6.2.1, Annex J, J.1.14, Figures 11, 16, 17, 25, 28, 59, 60, Tables 19, 20, 53, 54, 55, 56, 62, 63, 64
US	6,862,043	Video conversion	1	3.2, 4.12, 6.2, 6.2.2, 6.2.15, 6.2.15.1, 6.2.16, 6.2.16.1, 7.1.1.3, 8.3.4, 8.3.4.11, 8.4.4.14, J.1.17, Table 14, Figures 3, 4, 11