

## VP9 Patent List

updated as of January 10, 2025

Sisvel has the right to grant non-exclusive licenses under the VP9 patents owned or controlled by some of the world's leading technology companies: Dolby Electronics, Electronics and Telecommunications Research Institute (ETRI), Dolby Video Compression LLC (formerly GE Video Compression, LLC), Godo Kaisha IP Bridge 1, IDEA HUB Inc., JVCKENWOOD Corporation, Korea Advanced Institute of Science and Technology (KAIST), Korean Broadcasting System (KBS), Koninklijke Philips N.V., Nippon Telegraph and Telephone Corporation (NTT), NTT Docomo Inc., Orange S.A., Sejong University, Sk Planet Co. Ltd., SK Telecom Co. Ltd., Toshiba Corporation (previously Toshiba IPR Solutions) and Xylene Holdings S.A. (patents held by Xylene Holding include patents previously held by Mitsubishi Electric Corporation). The Patent Owners have appointed independent accredited third parties to evaluate the patents and confirm their use when implementing VP9 technology. The third party evaluation process is still ongoing and to date there are 864 patents listed, including third-party evaluated patents and their related family members. This list will be updated on a regular basis and supplemented to include new evaluations as soon as available.

Company	VP9 Family	Pat.Nr	Claim	Illustrative section(s) of the VP9 specification	
Dolby International AB	VP9-002	Exemplary Patent/s	US10499058	1	1, 2.3, 2.10, 2.16, 2.17, 2.45, 2.46, 2.58, 4.6, 4.7, 5.10, 5.26, 6.2, 6.2.2, 6.4.21, 6.4.24, 7.1, 7.2, 7.2.2, 7.4.16, 8.1, 8.6, 8.6.1, 8.6.2, B.1
			US10728554	1	1, 2.3, 2.16, 2.17, 2.45, 2.46, 4.6, 6.2, 6.2.2, 6.4.21, 6.4.24, 7.2, 7.2.2, 7.4.16, 8, 8.1, 8.6, 8.6.1, 8.6.2
			US10951893	1	1, 2.3, 2.16, 2.17, 2.45, 2.46, 4.6, 6.2, 6.2.2, 6.4.21, 6.4.24, 7.2, 7.2.2, 7.4.16, 8, 8.1, 8.6, 8.6.1, 8.6.2
			US11812020	3	1, 2.3, 2.10, 2.16, 2.17, 2.45, 2.46, 2.58, 4.6, 4.7, 5.10, 5.26, 6.2, 6.2.2, 6.4.21, 6.4.24, 7.1, 7.2, 7.2.2, 7.4.16, 8, 8.1, 8.6, 8.6.1, 8.6.2, B.1
		Family members	US9294771		
	VP9-004	Exemplary Patent/s	US10297008	1	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
	VP9-008	Exemplary Patent/s	USRE46924E	1	1, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 3, 5.13, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14
		Family members	US8401080		
	VP9-010	Exemplary Patent/s	CN107094252	2	1, 2, 5.6, 6.1, 6.2.6, 6.2.13, 6.4, 6.4.2, 6.4.3, 7.2.11, 8.6, 8.6.1, 8.7, 9.2
			KR101851477	1	2.3, 2.17, 2.47, 2.57, 2.59, 2.60, 5.14, 6.1, 6.2, 6.2.13, 6.4, 6.4.2, 6.4.3, 7.2.11, 9.2
			KR102003549	1	2.3, 2.5, 2.10, 2.16, 2.17, 2.47, 2.57, 2.58, 2.60, 4.7, 5.1, 5.6, 5.14, 5.26, 6.1, 6.2.13, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.21, 7.2.11, 7.4.15, 8, 8.1, 8.5, B.1, B.4
			RU2613740	2	1, 2.3, 2.5, 2.10, 2.17, 2.22, 2.40, 2.56, 2.57, 2.60, 4.9, 4.9.3, 4.9.4, 4.9.5, 6.1, 6.2, 6.2.6, 6.2.13, 6.2.14, 6.4, 6.4.2, 6.4.3, 7.1, 7.2.11, 7.4.1, 7.4.3, 9.2
			US10362311	1	2.3, 2.5, 2.10, 2.16, 2.17, 2.47, 2.57, 2.58, 2.60, 4.7, 5.1, 5.6, 5.14, 5.26, 6.1, 6.2.13, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.21, 7.2.11, 7.4.15, 8.1, 8.5, B.1, B.4
			US9319694	1	1, 2.3, 2.5, 2.10, 2.17, 2.22, 2.40, 2.56, 2.57, 2.60, 4.9, 4.9.3, 4.9.4, 4.9.5, 6.1, 6.2, 6.2.6, 6.2.13, 6.2.14, 6.4, 6.4.2, 6.4.3, 7.1, 7.2.11, 7.4.1, 7.4.3, 9.2
			US9661335	1	2.3, 2.5, 2.10, 2.16, 2.17, 2.47, 2.57, 2.58, 2.60, 4.7, 5.1, 5.6, 5.14, 5.26, 6.1, 6.2.13, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.21, 7.2.11, 7.4.15, 8, 8.1, 8.5, B.1, B.4
			Family members	KR101708982	
			US9380308		
			US9654783		
	VP9-011	Exemplary Patent/s	TWI268714	2	2.3, 2.5, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.52, 2.53, 2.57, 2.59, 2.61, 2.62, 6.1, 6.2, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.11, 6.4.13, 6.4.21, 7.2, 7.4.3, 7.4.4, 7.4.8, 7.4.9, 8.5, 8.5.2, 8.6, 8.6.2, 8.7, 8.7.2, 10.2
			US7894530	6	2.3, 2.5, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.52, 2.53, 2.57, 2.59, 2.61, 2.62, 6.1, 6.2, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.11, 6.4.13, 6.4.21, 7.2, 7.4.3, 7.4.4, 7.4.8, 7.4.9, 8.5, 8.5.2, 8.6, 8.6.2, 8.7, 8.7.2, 10.2
	VP9-012	Exemplary Patent/s	US7319415	17	1, 2.3, 2.5, 2.9, 2.10, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.35, 2.41, 2.42, 2.43, 2.48, 2.51, 2.52, 2.59, 2.61, 2.62, 8.5, 8.5.2, 8.6.2, 8.7, 8.7.2, 8.8, 8.8.1, 8.8.2, 8.8.4, 8.8.5, 8.8.5.1
	VP9-014	Family members	US8798173		
	Dolby Video Compression, LLC (formerly GE Video Compression, LLC)	VP9-030	Exemplary Patent/s	CN108471534	1
			CN108471537	1	2, 2.3, 2.16, 2.17, 2.59, 2.61, 2.62, 4.9, 4.9.5, 5, 5.4, 6, 6.4.24, 6.4.25, 6.4.26, 7, 7.1.2, 7.4.16, 7.4.17, 8.5.1, 9, 9.2, 9.3, 9.3.2, 10.1

Dolby Video Compression, LLC (formerly GE Video)	VP9-030	Exemplary Patent/s	HK1260159	1	1, 2.9, 2.16, 2.17, 2.36, 2.61, 2.62, 4.9, 4.9.5, 6.4.24, 6.4.25, 6.4.26, 7.4.15, 7.4.16, 8, 8.1, 9.2, 9.2.2, 9.3, 9.3.1, 9.3.2, 10.1		
			HK1260162	1	2, 2.3, 2.16, 2.17, 2.59, 2.61, 2.62, 4.9, 4.9.5, 5, 5.4, 6, 6.4.24, 6.4.25, 6.4.26, 7, 7.1.2, 7.4.16, 7.4.17, 8.5.1, 9, 9.2, 9.3, 9.3.2, 10.1		
			JP6700341	1	2, 2.3, 2.16, 2.17, 2.59, 2.61, 2.62, 4.9, 4.9.5, 5, 5.4, 6, 6.4.24, 6.4.25, 6.4.26, 7, 7.1.2, 7.4.16, 7.4.17, 8.5.1, 9, 9.2, 9.3, 9.3.2, 10.1		
			JP6700342	1	2, 4.9, 4.9.5, 5.4, 6.4.4, 6.4.21, 6.4.24, 6.4.25, 7.4.8, 7.4.9, 7.4.16, 8.1, 8.6, 8.6.2, 8.7, 9.3, 9.3.2, 10.1		
			KR102023565	1	2.3, 2.16, 2.17, 2.22, 2.23, 2.51, 2.59, 2.60, 2.61, 2.62, 3, 4.9.1, 4.9.3, 4.9.5, 5.1, 5.4, 5.7, 5.21, 5.25, 6, 6.1, 6.1.2, 6.3, 6.3.7, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.25, 6.4.26, 7.1.2, 7.2, 7.3, 7.3.5, 7.4.16, 7.4.17, 8.4, 8.4.1, 8.4.2, 8.4.3, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.3, 9.3.1, 9.3.2, 9.3.3, 10.5		
			KR102023566	1	1, 2.9, 2.16, 2.17, 2.36, 2.61, 2.62, 4.9, 4.9.5, 6.4.24, 6.4.25, 6.4.26, 7.4.15, 7.4.16, 8, 8.1, 9.2, 9.2.2, 9.3, 9.3.1, 9.3.2, 10.1		
			TWI711302	1	2.3, 2.16, 2.17, 2.22, 2.23, 2.51, 2.59, 2.60, 2.61, 2.62, 3, 4.9.1, 4.9.3, 4.9.5, 5.1, 5.4, 5.7, 5.21, 5.25, 6, 6.1, 6.1.2, 6.3, 6.3.7, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.25, 6.4.26, 7.1.2, 7.2, 7.3, 7.3.5, 7.4.16, 7.4.17, 8.4, 8.4.1, 8.4.2, 8.4.3, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.3, 9.3.1, 9.3.2, 9.3.3, 10.5		
			TWI787604	1	1, 2.9, 2.16, 2.17, 2.36, 2.61, 2.62, 4.9, 4.9.5, 6.4.24, 6.4.25, 6.4.26, 7.4.15, 7.4.16, 8, 8.1, 9.2, 9.2.2, 9.3, 9.3.1, 9.3.2, 10.1		
			US10129549	1	2.3, 2.16, 2.17, 2.22, 2.23, 2.51, 2.59, 2.60, 2.61, 2.62, 3, 4.9.1, 4.9.3, 4.9.5, 5.1, 5.4, 5.7, 5.21, 5.25, 6, 6.1, 6.1.2, 6.3, 6.3.7, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.25, 6.4.26, 7.1.2, 7.2, 7.3, 7.3.5, 7.4.16, 7.4.17, 8.4, 8.4.1, 8.4.2, 8.4.3, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.3, 9.3.1, 9.3.2, 9.3.3, 10.5		
			US10148968	1	1, 2.9, 2.16, 2.17, 2.36, 2.61, 2.62, 4.9, 4.9.5, 6.4.24, 6.4.25, 6.4.26, 7.4.15, 7.4.16, 8, 8.1, 9.2, 9.2.2, 9.3, 9.3.1, 9.3.2, 10.1		
			US10477223	1	1, 2.9, 2.16, 2.17, 2.36, 2.61, 2.62, 4.9, 4.9.5, 6.4.24, 6.4.25, 6.4.26, 7.4.15, 7.4.16, 8, 8.1, 9.2, 9.2.2, 9.3, 9.3.1, 9.3.2, 10.1		
			US10587884	1	2.3, 2.16, 2.17, 2.22, 2.23, 2.51, 2.59, 2.60, 2.61, 2.62, 3, 4.9.1, 4.9.3, 4.9.5, 5.1, 5.4, 5.7, 5.21, 5.25, 6, 6.1, 6.1.2, 6.3, 6.3.7, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.25, 6.4.26, 7.1.2, 7.2, 7.3, 7.3.5, 7.4.16, 7.4.17, 8.4, 8.4.1, 8.4.2, 8.4.3, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.3, 9.3.1, 9.3.2, 9.3.3, 10.5		
			Family members		BR122020004415		
					CN108471538		
					CN108777793		
					KR101605163		
					KR101951413		
					KR102079664		
			US10123025				
			US10750191				
	VP9-031	Exemplary Patent/s	JP6909818	1	2, 5.13, 6.1, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.5.14, 7.4.11, 7.4.15, 8.1, 8.5.2, 8.6.2		
			KR102145722	1	2.3, 2.16, 2.17, 2.22, 2.48, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5.2, 8.5.2.1, 8.6.2		
			TWI713356	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 2.57, 4.7, 5.13, 5.19, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.5.2, 8.5.2.1		
			US10248966	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 2.57, 4.7, 5.13, 5.19, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.5.2, 8.5.2.1		
			US10460344	1	1, 2.3, 2.10, 2.15-2.17, 2.22, 2.25-2.27, 2.39, 2.41-2.43, 2.52, 2.53, 2.55, 2.59, 3, 5.5, 5.6, 5.13, 5.14, 6.1, 6.2, 6.2.11, 6.2.13, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.21, 6.4.24, 6.5, 6.5.1, 6.5.6, 6.5.12, 7.1, 7.2.11, 7.4.1, 7.4.3, 7.4.4, 7.4.11-7.4.13, 8.1, 8.5, 8.5.2, 8.6.2		
			US10672028	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 2.57, 4.7, 5.13, 5.19, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.5.2, 8.5.2.1		
			VP9-093	Exemplary Patent/s	BR122020007668	1	2, 4.9, 4.9.5, 5.3, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2
	CN105120287	1			2, 4.9, 4.9.5, 5.3, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2		

Dolby Video Compression, LLC	VP9-093	Exemplary Patent/s	CN106231329	1	2, 4.9, 4.9.5, 5.3, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2
			CN106231330	1	2, 4.9, 4.9.5, 5.1, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2
			CN106231334	1	2, 4.9, 4.9.5, 5.3, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6, 8.6.2, 9.3.2
			CN106231338	1	2, 4.9, 4.9.5, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2
			TWI775719	1	2, 4.9, 4.9.5, 5.3, 5.6, 5.14, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.21, 7.4.3, 7.4.15, 8.1, 8.6.2, 9.3.2
	VP9-095	Exemplary Patent/s	US10812811	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.25-2.27, 2.39-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 3, 4.9, 4.9.3, 4.9.5, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.11, 6.2.13, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.19, 6.4.21, 6.4.24, 6.5, 6.5.1, 6.5.14, 7.1, 7.2.11, 7.4.1, 7.4.3, 7.4.4, 7.4.11, 7.4.12, 7.4.15, 7.4.16, 8.1, 8.5, 8.5.2, 8.6, 8.6.2
	VP9-096	Exemplary Patent/s	CN103299623	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			CN106851320	7	1, 2, 5.6, 5.15, 6.2.11, 6.4.7, 6.4.12, 6.4.24, 7.2.9, 7.2.10, 7.4.6, 7.4.15, 7.4.16, 8.5, 8.5.1, 8.5.2, 8.6.2
			CN107071487	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.3, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			CN107071489	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			CN107071491	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.9, 7.2.10, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			CN107071492	1	1, 2, 4.9, 4.9.5, 5.6, 5.15, 6.2.11, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.3, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			HK1242497	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.3, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			HK1242880	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.9, 7.2.10, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			HK1243254	1	1, 2, 4.9, 4.9.5, 5.6, 5.15, 6.2.11, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.3, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			HK1243255	1	1, 2, 5.6, 5.15, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.13, 6.4.21, 7.2.10, 7.4.6, 7.4.15, 8.5.2, 8.6, 8.6.2
			JP6856554	1	2, 4.9.5, 5.15, 5.6, 6.2.11, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.10, 6.4.11, 6.4.12, 6.4.13, 6.4.14, 6.4.21, 6.4.24, 6.4.26, 7.2.9, 7.2.10, 7.4.3, 7.4.3, 7.4.6, 7.4.7, 7.4.8, 7.4.9, 7.4.15, 8.1, 8.5.2, 8.6.2
			KR101527666	1	2.3, 2.16, 2.17, 2.37, 2.54, 2.56, 2.57, 2.59, 3, 6.2.11, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.21, 6.4.24, 7.2.10, 7.4.3, 7.4.7, 7.4.15, 7.4.16, 8.5.2, 8.6.2
			KR101607426	2	2.54, 3, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 7.2.10, 7.4.7
			TWI513277	1	2.3, 2.16, 2.17, 2.37, 2.54, 2.56, 2.57, 2.59, 3, 6.2.11, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.12, 6.4.21, 6.4.24, 7.2.10, 7.4.3, 7.4.7, 7.4.15, 7.4.16, 8.5.2, 8.6.2
Family members			TWI644561		
	TWI725348				
Electronics and Telecommunications Research Institute	VP9-022	Exemplary Patent/s	KR101356448	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			KR101412176	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			KR101461496	1	5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.4.4, 7.4.5, 7.4.15, 8.5.1
			KR101461497	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			KR101605852	2	5.1, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.4.4, 7.4.5, 7.4.15, 8.5.1
			US10178393	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			US10321137	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			US10917647	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			US11683502	1	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			US8867854	1.5	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2

Electronics and Telecommunications	VP9-022	Exemplary Patent/s	US9369737	2.8	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
			US9407937	1.5	2.37, 2.56, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.15, 8.5.1, 10.2
		Family members	CN103384333		
			CN104219523		
			US9942554		
	VP9-023	Exemplary Patent/s	CN103548356	3	1, 6, 6.4.4, 6.4.5, 6.4.6, 6.4.8, 6.4.21, 6.4.24, 7, 7.4.7, 7.4.10, 8.5, 8.5.1, 8.6.2
			CN107623857	1.8	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			CN107888929	1	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR101857755	1, 9, 18, 20	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR101947142	1	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR102046520	1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR102046521	1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR102046522	1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR102046523	1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			KR102148466	1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			US10575014	1, 7	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
			US10992956	1.7	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2
US11523133			1.7	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2	
US17/894684			1.6	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2	
US18/091540			1.7	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2	
US18/091542	1.7	6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.5, 7.4.7, 7.4.15, 7.4.16, 8.5.1, 8.6.2			
VP9-024	Exemplary Patent/s	IDP000055563	1	1, 2, 3, 4.6, 6.5, 8.5	
		IDP000067851	1	1, 2, 3, 4.6, 6.5, 8.5	
		IDP000074830	10	1, 2, 3, 4.6, 6.5, 8.5	
		JP5911890	1	1, 2, 3, 4.6, 6.5, 8.5	
		JP6203878	1	1, 2, 3, 4.6, 6.5, 8.5	
		RU2586017	1	1, 2, 3, 4.6, 6.5, 8.5	
	Family members	CA2826157			
		CN103583044			
		JP6550429			
		KR101428030			
		KR101461498			
		KR101461499			
		KR101477771			
		US10244252			
VP9-026	Exemplary Patent/s	KR102171380	1	2.3, 2.22, 2.60, 6, 6.1, 6.4, 7.1, 7.4.1, 9.2	
		KR102275730	1	2.3, 2.22, 2.60, 6, 6.1, 6.4, 7.1, 7.4.1	
		KR102363426	1	2.3, 2.22, 2.60, 6, 6.1, 6.4, 6.4.21, 6.4.24, 7.1, 7.4.1, 7.4.15, 7.4.16, 8.6.2	
	Family members	KR101726276			
		KR101797055			
		KR101894407			
		KR101975254			
VP9-027	Exemplary Patent/s	KR101527085	1	2.21, 4.9.5, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 7.4.15, 7.4.16, 8.5.1, 8.6.2, 9.2, 10.2	
		KR101527086	1	2.21, 4.9.5, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 7.4.15, 7.4.16, 8.5.1, 8.6.2, 9.2, 10.2	
		KR101527087	1	2.21, 4.9.5, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 7.4.15, 7.4.16, 8.5.1, 8.6.2, 9.2, 10.2	
		KR101697153	1	2.21, 4.9.5, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 7.4.15, 7.4.16, 8.5.1, 8.6.2, 9.2, 10.2	
		KR101697154	1	2.21, 4.9.5, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 7.4.15, 7.4.16, 8.5.1, 8.6.2, 9.2, 10.2	
VP9-028	Exemplary Patent/s	KR101527444	1	2.19, 2.20, 6.4.4, 6.4.5, 6.4.6, 6.4.8, 6.4.11, 6.4.21, 6.4.24, 7.4.7, 7.4.16	

Electronics and	VP9-028	Family members	CN104488270		
			KR101725818		
			KR101809728		
			KR101809729		
			KR101809730		
			KR101809731		
			TWI563836		
			TWI596935		
			TWI619378		
			TWI619379		
			TWI621353		
			US10341661		
			US9497465		
			US9628799		
			US9635363		
US9641845					
US9723311					
VP9-029	Exemplary Patent/s	KR100882949	19	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US10499064	2	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US11330274	1.3	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US11949881	3	1, 2.3, 2.5, 2.6, 2.10, 2.15-2.18, 2.22, 2.29-2.32, 2.37, 2.40-2.43, 2.45-2.47, 2.51, 2.52, 2.56-2.62, 4.9, 4.9.3, 4.9.5, 5.6, 5.14, 6, 6.1, 6.4, 6.4.2-6.4.6, 6.4.21, 6.4.24-6.4.26, 7.3.1, 7.4.5, 7.4.15-7.4.17, 8.1, 8.5, 8.5.1, 10.1	
		US9154784	1	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US9736484	1	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US9819942	4	4.9.5, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8.6.2, 8.7.2, 9.2, 10.1, 10.2	
		US8548060			
US9225982					
VP9-080	Exemplary Patent/s	KR101095938	14	4.9.5, 5.22, 6.4.15, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.16, 8, 8.1, 8.6.2, 8.7.2, 9.2	
VP9-082	Exemplary Patent/s	KR102439871	1	2.15, 2.45, 3, 6.2.9, 6.2.10, 6.4.25, 7.2.9, 8.6.1, 8.6.2, 8.7.2	
		Family members	KR101854640		
			KR101874015		
			KR101973563		
KR101973571					
VP9-088	Exemplary Patent/s	KR101894557	1	1, 4.9.5, 6.4.6, 7.4.5, 8, 8.1, 8.5.1, 9.2.2, 9.3, 9.3.2, 9.3.3, 10.4	
VP9-089	Exemplary Patent/s	KR101424219	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		KR101527443	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		KR102245490	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		KR102332284	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		TWI612799	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		TWI651962	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		TWI651963	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		TWI653877	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
		TWI662831	1	6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4., 8.5.2, 8.5.2.1	
Family members	KR101424220				
VP9-097	Exemplary Patent/s	CN110267048	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2	

Electronics and Telecommunications Research Institute	VP9-097	Exemplary Patent/s	JP6746749	3	1, 2.3, 2.5, 2.10, 2.19, 2.20, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			JP7025491	3	1, 2.3, 2.5, 2.10, 2.19, 2.20, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			JP7358573	1	2, 5.6, 5.14, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 7.4.3, 7.4.15, 8.1
			JP7358582	3	2, 5.6, 5.14, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.15, 8.1, 8.5.2, 8.5.2.1
			KR101651594	1	2.18, 2.32, 2.37, 2.46, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.24, 6.4.26, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 7.4.16, 7.4.17, 8.5.2, 8.5.2.1, 8.6.2, 8.7.2
			KR101651595	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.5.2.3, 8.5.2.4
			KR101718886	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.5.2.3, 8.5.2.4
			KR101720622	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2
			KR102114036	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			KR102331195	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			US10038907	1	1, 2.3, 2.5, 2.10, 2.19, 2.20, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			US10694191	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			US11206411	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			US9854249	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 5.5, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.3, 6.3.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.1, 7.2.11, 7.3, 7.3.1, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			VP9-098	Exemplary Patent/s	KR102150089
	KR102253173	10	2.26, 2.27, 2.29, 6.2, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 7.2, 7.4.4, 7.4.12, 8, 8.1, 8.5, 8.5.2, 8.5.2.4, 8.6.2, 9.3.2		
	KR102555224	10	2.26, 2.27, 2.29, 6.2, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 7.2, 7.4.4, 7.4.12, 8, 8.1, 8.5, 8.5.2, 8.5.2.4, 8.6.2, 9.3.2		
VP9-108	Exemplary Patent/s	KR102423641	1	6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 7.4.9, 8.5.2, 8.5.2.1	

Electronics and Telecommunications	VP9-108	Exemplary Patent/s	KR102504802	1	6.4.11, 6.4.13, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 7.4.9, 8.5.2, 8.5.2.1, 8.6.2	
	VP9-109	Exemplary Patent/s	CN110198441	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			CN110198447	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			CN110198450	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			CN110267048	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			CN110446038	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			JP7271768	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			JP7414909	3	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102412640	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102412641	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102412642	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102559003	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1	
			KR102559004	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102620624	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			KR102620625	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			US10536706	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			US10805612	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
			US10863181	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1, 8.6.2	
		VP9-110	Exemplary Patent/s	KR102447543	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1
				KR102558513	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1
			KR102558514	1	2.37, 2.56, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 8.5.2, 8.5.2.1	
			US10848757	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37, 2.41-2.43, 2.52, 2.56, 2.57, 2.59, 2.60, 5.6, 5.10, 5.14, 6.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.18, 6.4.21, 6.5, 6.5.1, 6.5.3, 6.5.6-6.5.8, 6.5.10, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 7.4.15, 8.1, 8.5, 8.5.2, 8.5.2.1	
			US11284067	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37, 2.41-2.43, 2.52, 2.56, 2.57, 2.59, 2.60, 5.6, 5.10, 5.14, 6.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.18, 6.4.21, 6.5, 6.5.1, 6.5.3, 6.5.6-6.5.8, 6.5.10, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 7.4.15, 8.1, 8.5, 8.5.2, 8.5.2.1	
			US11843768	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37, 2.41-2.43, 2.52, 2.56, 2.57, 2.59, 2.60, 5.6, 5.10, 5.14, 6.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.18, 6.4.21, 6.5, 6.5.1, 6.5.3, 6.5.6-6.5.8, 6.5.10, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 7.4.15, 8.1, 8.5, 8.5.2, 8.5.2.1	
			VN40056	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37, 2.41-2.43, 2.52, 2.56, 2.57, 2.59, 2.60, 5.6, 5.10, 5.14, 6.1, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.18, 6.4.21, 6.5, 6.5.1, 6.5.3, 6.5.6-6.5.8, 6.5.10, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 7.4.15, 8.1, 8.5, 8.5.2, 8.5.2.1	
	VP9-113	Exemplary Patent/s	US9794556	3	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.28-2.31, 2.37, 2.40-2.43, 2.48, 2.51, 2.61, 4.9.5, 5.4, 6.4.4-6.4.6, 6.4.8, 6.4.21, 6.4.24, 7.4.4, 7.4.5, 7.4.7, 7.4.10, 7.4.15, 8.1, 8.5, 8.5.1	
	VP9-114	Exemplary Patent/s	KR102482553	2	6.4.16, 6.4.18, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 8, 8.1, 8.5.2, 8.5.2.1, 8.6.2	
	VP9-115	Exemplary Patent/s	US11595655	1	1, 2.3, 2.5, 2.6, 2.15-2.17, 2.22, 2.40-2.43, 2.48, 2.51-2.53, 2.61-2.63, 3, 4.9.5, 6.2, 6.2.9, 6.4.4, 6.4.8, 6.4.21, 6.4.24-6.4.26, 7.2.9, 7.47, 8.7.2, 9.3, 9.3.1, 9.3.2, 10.2	

Electronics and Telecommunications Research Institute	VP9-115	Exemplary Patent/s	US12010312	1	1, 2.3, 2.5, 2.15-2.17, 2.22, 2.40-2.43, 2.51-2.53, 2.61-2.63, 3, 6.2, 6.2.9, 6.4.4-6.4.6, 6.4.8, 6.4.15, 6.4.21, 6.4.11, 6.4.21, 6.4.24-6.4.26, 7.2.9, 7.4.5, 7.4.7, 7.4.10, 7.4.15, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7.2, 10, 10.2
Godo Kaisha IP Bridge 1	VP9-046	Exemplary Patent/s	US7515635	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, and 8.3.1.
			US8009733	1	1, 2.3, 2.5, 2.10, 2.17, 2.22, 2.26, 2.27, 2.42, 2.48, 2.49, 2.51, 2.52, 2.54, 2.56, 2.57, 2.59, 2.60, 2.63, 3, 4.9, 4.9.1, 4.9.2, 4.9.3, 4.9.4, 4.9.5, 5.1, 5.5, 5.10, 6.1, 6.2, 6.2.11, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.16, 6.4.17, 6.4.21, 7.2.10, 7.4.12, 8.5, 8.5.2, 9.1, 9.2, 9.2.4, 9.3
		Family members	US8184697		
		US8204112			
US8223841					
IDEAHUB Inc.	VP9-036	Exemplary Patent/s	KR101791163	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
			KR101895362	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
			KR101927384	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
			KR101927385	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
			KR101927386	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
			US9699449	1	1, 2, 2.3, 2.9, 2.10, 2.15-2.18, 2.22, 2.36-2.38, 2.40, 2.45, 2.51-2.53, 2.55, 2.59, 2.61, 2.62, 3, 4, 4.6, 4.9, 4.9.1, 4.9.2, 5, 5.7, 5.15, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2-6.4.6, 6.4.10, 6.4.11, 7, 7.3, 7.3.1, 7.2.9, 7.2.10, 7.4.3, 7.4.4, 7.4.8, 8.1, 8.6, 8.6.1, 9.1, 9.3, 9.3.1-9.3.4, 10, 10.2
		Family members	CNZL201180039691.0		
		CNZL201610518674.X			
		EP2608540 (DE)			
		EP2608540 (ES)			
		EP2608540 (FI)			
		EP2608540 (FR)			
		EP2608540 (GB)			
		EP2608540 (IT)			
		EP2608540 (NL)			
		EP2608540 (SE)			
		JP6163176			
KR101581742					
KR101650464					
KR101791164					
KR101927387					
US10212422					
US10827174					
US10939106					
US9838691					
JVCKENWOOD Corporation	VP9-052	Exemplary Patent/s	CN103621087	1	6.4.3, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8, 8.1, 8.5
			CN105791834	1	1, 2, 6.4.2, 6.4.3, 6.4.15, 6.4.21, 7.2, 7.2.2, 7.4.3, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			CN105812806	1	1, 2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			CN105812807	1	1, 2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			CN107071428	1	1, 2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2



JVCKENWOOD Corporation	VP9-052	Exemplary Patent/s	JP05614381	1	6.2.2, 6.4.3, 6.4.4, 6.4.15, 6.4.21, 6.4.23, 7.2.2, 7.4.3, 7.4.5, 7.4.10, 8.5.1, 10.2
			JP05678818	1	5.6, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 6.4.23, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.10, 8.5.1, 10.2
			JP5679019	1	1, 2, 6.4.2, 6.4.3, 6.4.15, 6.4.21, 7.2, 7.2.2, 7.4.3, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			JP5725107	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2
			JP5725108	1	1, 2, 6.4.2, 6.4.3, 6.4.15, 6.4.21, 7.2, 7.2.2, 7.4.3, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			JP5839094	1	1, 2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			JP5839143	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 6.4.23, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.10, 8.5.1, 10.2
			JP5839144	1	1, 2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5, 8.5.1, 10.2
			KR101588143	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2
			KR101668575	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2
			KR101729463	1	2.19, 2.20, 6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2
			TWI552578	7	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2
			TWI562603	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.15, 6.4.21, 6.4.23, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.10, 8.5.1, 10.2
			TWI562604	1	6.2.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.15, 6.4.21, 7.2.2, 7.4.3, 7.4.4, 7.4.5, 7.4.9, 7.4.10, 7.4.15, 8.5.1, 10.2

KAIST and KBS	VP9-092	Exemplary Patent/s	CN102369733	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			CN105959689	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			CN105959690	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			CN105959691	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			CN105959692	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			CN106101705	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			JP6164600	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			JP6164660	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			JP6851263	1	2, 5.7, 6.3.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.10, 6.4.11, 6.4.21, 7.3.1, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8, 8.1, 8.6.2, 10
			JP6851264	1	2, 5.7, 6.3.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.10, 6.4.11, 6.4.21, 7.3.1, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8, 8.1, 8.6.2, 10
			JP6851265	1	2, 5.7, 6.3.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.10, 6.4.11, 6.4.21, 7.3.1, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8, 8.1, 8.6.2, 10
			JP7171646	3	2, 5.7, 6.3.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.10, 6.4.11, 6.4.21, 7.3.1, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8, 8.1, 8.6.2, 10
			KR101250608	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101644967	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101644970	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101648123	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101785431	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101857583	4	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101857591	4	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR101857598	4	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			KR102062894	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			US10462494	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			US11076175	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2
			US11659210	1	2, 5.7, 6.3.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.10, 6.4.11, 6.4.21, 7.3.1, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8, 8.1, 8.6.2, 10

KAIST and KBS	VP9-092	Exemplary Patent/s	US9485512	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2		
			US9838719	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2		
			US9838721	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2		
			US9838722	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2		
			US9888259	1	1, 2, 5.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.21, 7.4.3, 7.4.8, 7.4.9, 7.4.15, 8.5, 8.5.1, 8.5.2		
		Family members	JP6846988				
Koninklijke Philips N.V.	VP9-081	Exemplary Patent/s	US8774540	1	2.3, 2.6, 2.10, 2.16, 2.17, 2.22, 2.47, 2.48, 2.52, 2.57, 2.59, 2.60, 2.63, 4.8, 4.9.3-4.9.5, 5.6, 5.14, 5.17, 5.21, 5.23-5.25, 6.1, 6.1.2, 6.2, 6.2.13, 6.3, 6.3.7, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.26, 7.1, 7.1.2, 7.3, 7.3.5, 7.4.3, 7.4.4, 7.4.15-7.4.17, 8.1, 8.4, 8.4.3, 8.5, 8.5.1, 8.6, 8.6.2, 8.8, 9.2, 9.2.1-9.2.3, 9.3, 9.3.1, 9.3.2, 9.3.3, 9.3.4		
Nippon Telegraph and Telephone Corporation	VP9-054	Exemplary Patent/s	CN1922888	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
			EP1781042 (DE)	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
			EP1781042 (FR)	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
			EP1781042 (GB)	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
			KR10941495	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
			TWI268715	10	2, 4, 6.4.16, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.8, 6.5.10, 6.5.12, 7.4.11, 8.5.2, 8.5.2.4		
		Family members	JP05052134 US9402087				
NTT Docomo, Inc.	VP9-102	Exemplary Patent/s	US9031125	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.26, 2.27, 2.39-2.42, 2.51, 2.52, 2.54, 2.56, 2.57, 2.59, 2.60, 3, 4.9, 4.9.1-4.9.5, 5.6, 5.13-5.15, 6.1, 6.2, 6.2.11, 6.3, 6.3.12, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16-6.4.21, 6.4.24, 6.4.26, 6.5.1, 6.5.12, 7.2, 7.2.10, 7.3.6, 7.4.1, 7.4.3, 7.4.9, 7.4.11, 7.4.12, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.5.2.4, 8.6, 8.6.1, 8.6.2, 8.10		
			VP9-104	Exemplary Patent/s	CN103004206	10	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.9, 6.1, 6.2, 6.2.13, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17-6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.6-6.5.8, 6.5.10-6.5.12, 7.1, 7.2.11, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7.2, 10.2
					KR101770662	1	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.9, 6.1, 6.2, 6.2.13, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17-6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.6-6.5.8, 6.5.10-6.5.12, 7.1, 7.2.11, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7.2, 10.2
US9185409	11	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.26, 2.27, 2.37-2.39, 2.41-2.43, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.9, 6.1, 6.2, 6.2.13, 6.4, 6.4.2-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17-6.4.19, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.6-6.5.8, 6.5.10-6.5.12, 7.1, 7.2.11, 7.4.1, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.13, 7.4.15-7.4.17, 8.1, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7.2, 10.2					
Orange S.A.	VP9-055	Exemplary Patent/s	CN102804768	9	1,2,2.5,5.5.1,5.4, 5.5, 5.13, 6, 6.4.16, 6.4.19, 6.4.20, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 7, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5, 8.5.2, 8.5.2.1		
			EP2443835 (CY)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (DE)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (ES)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (FR)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (GB)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (HU)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (IT)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (MK)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (PT)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		
			EP2443835 (TR)	9	2.5, 5.1, 5.13, 5.4, 5.5, 6.4.16, 6.5.6, 7.4.11		

Orange S.A.	VP9-055	Exemplary Patent/s	IN416037	9	1,2,2.5,5.1,5.4, 5.5, 5.13, 6, 6.4.16, 6.4.19, 6.4.20, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 7, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			RU2553062	10	1,2,2.5,5.1,5.4, 5.5, 5.13, 6, 6.4.16, 6.4.19, 6.4.20, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 7, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			US8891628	10	1,2,2.5,5.1,5.4, 5.5, 5.13, 6, 6.4.16, 6.4.19, 6.4.20, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 7, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5, 8.5.2, 8.5.2.1
			ZA201109188	12	1,2,2.5,5.1,5.4, 5.5, 5.13, 6, 6.4.16, 6.4.19, 6.4.20, 6.4.21, 6.5, 6.5.1, 6.5.2, 6.5.6, 7, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 8.5, 8.5.2, 8.5.2.1
	VP9-056	Exemplary Patent/s	CN102498718	1	3, 5.6, 5.13, 6.5.1, 6.5.10, 6.5.11
			US10051283	1	2.3, 2.5, 2.22, 2.27, 2.39, 2.49, 2.52, 2.56, 2.57, 2.59, 2.61, 2.62, 3, 5.4, 5.5, 5.6, 5.13, 6.4.3, 6.4.4, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.2, 6.5.6, 6.5.7, 6.5.8, 6.5.10, 6.5.11, 6.5.12, 7.4.3, 7.4.4, 7.4.13
	VP9-099	Exemplary Patent/s	CN101790848	7	2, 2.3, 2.5, 2.57, 5.1, 5.6, 6.3.1, 6.4.10, 7.3, 7.3.1, 7.4.8, 8, 8.1, 8.6.2
			IN302732	8	2, 2.3, 2.5, 2.57, 5.1, 5.6, 6.3.1, 6.4.10, 7.3, 7.3.1, 7.4.8, 8, 8.1, 8.6.2
			JP5613561	8	2, 2.3, 2.5, 2.57, 5.1, 5.6, 6.3.1, 6.4.10, 7.3, 7.3.1, 7.4.8, 8, 8.1, 8.6.2
	VP9-100	Exemplary Patent/s	CN101375609	8	2, 5.65.13, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 7.2.10, 7.4.1, 7.4.11, 7.4.13, 7.4.14, 8.1, 8.5, 8.5.1, 8.5.2, 8.5.2.3
			IN272289	9	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.25-2.31, 2.39, 2.41-2.43, 2.51-2.53, 2.55-2.60, 5.5, 5.6, 5.13, 5.14, 6.1, 6.2, 6.2.11, 6.2.13, 6.4, 6.4.2-6.4.6, 6.4.8, 6.4.11, 6.4.13, 6.4.15-6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 7.2.10, 7.4.4, 7.4.5, 7.4.10-7.4.14, 8.1, 8.5, 8.5.1, 8.5.2, 8.5.2.2-8.5.2.4, 8.6, 8.6.2
			JP5280860	9	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.25-2.31, 2.39, 2.41-2.43, 2.51-2.53, 2.55-2.60, 5.5, 5.6, 5.13, 5.14, 6.1, 6.2, 6.2.11, 6.2.13, 6.4, 6.4.2-6.4.6, 6.4.8, 6.4.11, 6.4.13, 6.4.15-6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 7.2.10, 7.4.4, 7.4.5, 7.4.10-7.4.14, 8.1, 8.5, 8.5.1, 8.5.2, 8.5.2.2-8.5.2.4, 8.6, 8.6.2
			KR101359736	9	2, 5.65.13, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 7.2.10, 7.4.1, 7.4.11, 7.4.13, 7.4.14, 8.1, 8.5, 8.5.1, 8.5.2, 8.5.2.3
			US8611413	8	1, 2.3, 2.5, 2.10, 2.15-2.17, 2.22, 2.25-2.31, 2.39, 2.41-2.43, 2.51-2.53, 2.55-2.60, 5.5, 5.6, 5.13, 5.14, 6.1, 6.2, 6.2.11, 6.2.13, 6.4, 6.4.2-6.4.6, 6.4.8, 6.4.11, 6.4.13, 6.4.15-6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 7.2.10, 7.4.4, 7.4.5, 7.4.10-7.4.14, 8.1, 8.5, 8.5.1, 8.5.2, 8.5.2.2-8.5.2.4, 8.6, 8.6.2
VP9-106			Exemplary Patent/s	US9100038	8
Sejong University	VP9-103	Exemplary Patent/s	KR101440731	11	.3, 2.15, 2.16, 2.17, 2.47, 2.57, 2.60, 4.9.1, 5.14, 6.1, 6.2, 6.2.13, 6.4, 6.4.1, 6.4.2, 7.2.11, 8, 8.1
	VP9-112	Exemplary Patent/s	KR101549016	6	2.3, 2.15, 2.16, 2.17, 2.57, 2.60, 4.9.1, 5.14, 6.1, 6.2, 6.2.13, 6.4, 7.2.11, 8, 8.1
			KR101549017	5	2.3, 2.15, 2.16, 2.17, 2.57, 2.60, 4.9.1, 5.14, 6.1, 6.2, 6.2.13, 6.4, 7.2.11, 8, 8.1
			KR101549018	5	2.3, 2.15, 2.16, 2.17, 2.57, 2.60, 4.9.1, 5.14, 6.1, 6.2, 6.2.13, 6.4, 7.2.11, 8, 8.1
			KR101614402	5	2.3, 2.15, 2.16, 2.17, 2.57, 2.60, 4.9.1, 5.14, 6.1, 6.2, 6.2.13, 6.4, 7.2.11, 8, 8.1
SK Planet Co., Ltd	VP9-101	Exemplary Patent/s	US10334271	4	2.5, 2.16, 2.17, 2.39, 4, 4.7, 4.8, 5.6, 5.14, 6.1, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.8, 6.5.10, 6.5.11, 6.5.12, 6.5.14, 7.4.3, 7.4.4, 7.4.11, 7.4.13, 7.4.15, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2
			US10341679	4	2.5, 2.16, 2.17, 2.39, 4, 4.7, 4.8, 5.6, 5.14, 6.1, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.4.26, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.8, 6.5.10, 6.5.11, 6.5.12, 6.5.14, 7.4.3, 7.4.4, 7.4.11, 7.4.13, 7.4.15, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.3
SK Telecom Co., Ltd.	VP9-060	Exemplary Patent/s	KR101487436	26	1, 2.3, 2.5, 2.16, 2.17, 2.31, 4, 4.9, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7.2

SK Telecom Co., Ltd.	VP9-060	Exemplary Patent/s	US10298954	1	1, 2.3, 2.5, 2.16, 2.17, 2.31, 4, 4.9, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7.2
			US9654798	1	1, 2.3, 2.5, 2.16, 2.17, 2.31, 4, 4.9, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7.2
	VP9-061	Exemplary Patent/s	KR101464944	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			KR101464949	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			KR101483495	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			KR101534014	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			KR101537767	1	2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			US9674551	1, 5	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			US9838696	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
			US9854250	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.31, 2.37, 2.48, 2.51, 2.52, 2.53, 2.56, 2.59, 2.61, 2.62, 5.4, 5.7, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 8.5, 8.5.1, 8.6, 8.6.2, 8.7.2
	VP9-062	Exemplary Patent/s	KR101458471	1	2.17, 2.31, 6, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 7.4.16, 7.4.17, 8.5, 8.5.1, 8.6, 8.6.2, 8.7, 8.7.2
			KR101608885	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			KR101608888	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			KR101608895	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			KR101648910	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			US8818114	1	2.17, 2.31, 6, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.4, 7.4.5, 7.4.8, 7.4.15, 7.4.16, 7.4.17, 8.5, 8.5.1, 8.6, 8.6.2, 8.7, 8.7.2
			US9148660	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			US9491467	1	2.17, 2.31, 2.61, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.26, 7.4.5, 7.4.8, 7.4.15, 8.5.1, 8.6.2
			VP9-063	Exemplary Patent/s	KR101364195
	KR101544390	1			1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10
	KR101567963	1			1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10
	KR101567964	1			1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10
	KR101567990	1			1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10

SK Telecom Co., Ltd.	VP9-063	Exemplary Patent/s	US9369714	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10
			US9992510	6	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10
VP9-064	Exemplary Patent/s	Family members	KR101377527	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			KR101575605	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			KR101575616	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			KR101575635	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			KR101575645	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			US9137546	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.4
			US9628815		
VP9-065	Exemplary Patent/s	Family members	CN102362498	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			CN104935939	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			CN105072448	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			CN105072449	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			KR101582493	2	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			KR101582495	2	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			KR101590511	2	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			US9070179	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2

SK Telecom Co., Ltd.	VP9-065	Exemplary Patent/s	US9363531	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			US9420304	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
			US9445118	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.46, 2.52, 4.7, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.24, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.11, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.7.2
	VP9-066	Exemplary Patent/s	KR101479129	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.60, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.5.2, 8.6.2, 10.2
			US9549190	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.60, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.5.2, 8.6.2, 10.2
			US9565444	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.60, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.5.2, 8.6.2, 10.2
			US9609334	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.60, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.5.2, 8.6.2, 10.2
			US9609335	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.60, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.13, 6.4.21, 6.4.24, 7.4.3, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.5.2, 8.6.2, 10.2
	VP9-067	Exemplary Patent/s	CN102986219	1	2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.11, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 8.8, 8.8.2
			CN105163131	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (BE)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (CZ)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (DE)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (ES)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (GB)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (HU)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (IT)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (NL)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (PL)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (RO)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (SE)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (TR)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2
			EP2571269 (FR)	1	1, 2, 5.4, 6.4.3, 6.4.10, 6.4.15, 6.4.16, 6.4.18, 6.4.19, 6.4.24, 7.4.3, 7.4.8, 7.4.10, 7.4.11, 7.4.13, 7.4.16, 8.5.2, 8.6, 8.6.2, 8.8, 8.8.2, 8.8.5, 10.2



SK Telecom Co., Ltd.	VP9-067	Family members	US9479791			
			US9532065			
			US9787988			
	VP9-068	Exemplary Patent/s	CN102273206	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 8, 8.1, 8.10	
			CN103327338	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 8, 8.1, 8.10	
			CN103354614	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 8, 8.1, 8.10	
			KR101279573	38	1, 2.3, 2.5, 2.16, 2.17, 2.19, 2.20, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10	
			KR101314632	13	1, 2.3, 2.5, 2.16, 2.17, 2.19, 2.20, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10	
			KR101316710	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 8, 8.1, 8.10	
			KR101483174	15	1, 2.3, 2.5, 2.16, 2.17, 2.19, 2.20, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10	
			US8976863	1	1, 2.3, 2.5, 2.16, 2.17, 2.19, 2.20, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 7.4.14, 8, 8.1, 8.10	
			US9392300	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.27, 2.39, 2.52, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.4, 7.4.11, 7.4.13, 8, 8.1, 8.10	
			Family members	CN103297784		
				CN103297785		
				KR101445835		
				US9781445		
	US9794590					
	US9955182					
	VP9-087	Exemplary Patent/s	CN102598669	19	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			CN104506875	9	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			CN104506876	1	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			CN104539957	9	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			CN104539974	1	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			US9154809	8	2.3, 2.5, 2.6, 2.9, 2.16, 2.17, 2.22, 2.31, 2.36, 2.42, 2.61, 2.62, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.10, 6.4.21, 6.4.24, 6.4.25, 7.4.3, 7.4.8, 7.4.9, 8, 8.1, 8.5, 8.5.1, 8.6.2, 10.2	
			Family members	KR101302660		
		KR101369174				
		KR101544379				
KR101575634						
KR101575638						
US9584810						
VP9-105		Exemplary Patent/s	KR101356613	14	6.2, 6.4.8, 6.4.11, 6.4.16, 6.4.18, 6.4.21, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.2, 7.4.4, 7.4.7, 7.4.11, 7.4.15, 8.5.2, 8.5.2.1	
	KR101377530		20	6.2, 6.4.16, 6.4.18, 6.5.1, 6.5.6, 6.5.11, 6.5.12, 7.2, 7.4.4, 7.4.11		



SK Telecom Co., Ltd.	VP9-105	Exemplary Patent/s	US9154806	1	1, 2.3, 2.5, 2.16, 2.17, 2.22, 2.25-2.27, 2.39, 2.40, 2.52, 2.63, 4.9.5, 5.5, 5.13, 6.2, 6.4.4, 6.4.5, 6.4.11, 6.4.18, 6.5.1, 6.5.2, 6.5.6, 6.5.11, 6.5.12, 7.2, 7.4.11, 9.1, 9.3, 9.3.1, 9.3.2
Toshiba Corporation	VP9-078	Exemplary Patent/s	CN102763416	7	2,2.19,2.20, 2.3, 2.37, 2.48, 2.62, 3, 5, 5.1, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.3.14, 6.4.25, 7.3.5, 7.4.5, 7.4.10, 9.3, 9.3.1, 10.1, 10.2
			CN103024391	7	1, 2, 2.18, 2.37, 2.46, 2.62, 3, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.4.5, 6.4.6, 6.4.11, 7.4.5, 8, 8.1, 9.3, 9.3.1, 10.2
			JP05323209	1	2, 2.3, 2.19, 2.48, 2.51, 2.59, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.4.6, 6.4.25, 6.4.26, 7.4.5, 8, 8.1, 9, 9.2, 9.3, 9.3.1, 10, 10.1, 10.2
			JP05432359	1	2, 2.3, 2.48, 2.51,2.59, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.4.6, 6.4.25, 6.4.26, 7.4.5,8.1, 9, 9.2, 9.3, 9.3.1, 10, 10.1, 10.2
			JP05432412	2	2, 2.3, 2.45, 2.59, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.2.9, 6.4.5, 6.4.6, 6.4.25, 7.4.5, 8, 8.1, 9.3, 9.3.1, 10, 10.1, 10.2
			JP05525650	2	2, 2.3, 2.45, 2.48, 2.51, 2.59, 3, 5, 5.1, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.2.9, 6.4.25, 7, 7.4.5, 8, 8.1, 10, 10.1, 10.2
			JP05526277	1	2, 2.3, 2.16, 2.45, 2.48, 2.51, 2.59, 5, 5.1, 5.4, 5.7, 5.8, 5.9, 5.13, 5.22, 6, 6.2.9, 6.4.25, 7, 7.4.5, 7.4.11, 8, 8.1, 8.7.2, 10, 10.2
			JP05597782	2	2, 2.3, 2.45, 2.48, 2.51, 2.59, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.2.9, 6.4.25, 7, 7.4.5, 8, 8.1, 10, 10.1, 10.2,
			JP05696248	10	2, 2.3, 2.16, 2.19, 2.45, 2.59, 5, 5.1, 5.4, 5.7, 5.8, 5.9, 5.13, 5.22, 6, 6.2.9, 6.4.25, 7, 7.4.5, 7.4.11, 8, 8.1, 8.7, 8.7.2, 9.2, 9.3.2, 10, 10.1, 10.2
			JP05908619	3	2, 2.3, 2.45, 2.48, 2.51, 2.59, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6, 6.2.9, 7, 7.4.5, 5, 5.7, 8, 8.1, 10, 10.2, 6.4.25, 10, 10.1, 10.2,
			US9113138	9	1, 2, 2.1, 2.3, 2.5, 2.10, 2.13, 2.17, 2.18, 2.22, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 6.1, 6.3, 6.3.3, 6.3.14, 6.4.4, 6.4.5, 6.4.6, 6.4.11, 6.4.15, 6.4.21, 6.4.24, 6.4.25, 7.4.5, 8.1, 8.5, 8.5.1, 8.7, 8.7.2, 9.2, 9.2.1, 9.2.2, 9.3, 9.3.1, 9.3.2, 9.3.3, 10.1, 10.2, 10.4.
			US9113139	9	1, 2, 2.1, 2.3, 2.5, 2.10, 2.13, 2.17, 2.18, 2.22, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.24, 6.4.25, 7, 7.4.5, 8.1, 8.5, 8.5.1, 8.7, 8.7.2, 10, 10.1
			US9143777	2	1, 2, 2.1, 2.3, 2.5, 2.6, 2.10, 2.13, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4, 6.4.2, 6.4.3,, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.21, 6.4.24, 6.4.25, 7, 7.4.5, 7.4.10, 7.4.15, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.2, 9.3, 9.3.1, 9.3.2, 10.1, 10.2, and 10.4.
			US9154779	2	1, 2, 2.1, 2.3, 2.5, 2.10, 2.13, 2.17, 2.18, 2.22, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4.4, 6.4.5, 6.4.6, 6.4.21, 6.4.24, 6.4.25, 7, 7.4.5, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.1.1, 8.7.1.3, 8.7.1.9, 8.7.2, 10, 10.1, and 10.2.
			US9294768	2	1, 2, 2.1, 2.3, 2.5, 2.6, 2.10, 2.13, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.21, 6.4.24, 6.4.25, 7, 7.4.5, 7.4.10, 7.4.11, 7.4.15, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.2, 9.3, 9.3.1, 9.3.2, 10.1, 10.2 and 10.4.
			US9392282	10	1, 2, 2.1, 2.3, 2.5, 2.6, 2.10, 2.13, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.22, 5.25, 6.1, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.21, 6.4.24, 6.4.25, 7.4.5, 7.4.10, 7.4.15, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.2, 9.3, 9.3.1, 9.3.2, 10.1, 10.2, 10.4
			VN16277	9	1, 2, 2.1, 2.3, 2.5, 2.10, 2.13, 2.17, 2.18, 2.22, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.24, 6.4.25, 7, 7.4.5, 8.1, 8.5, 8.5.1, 8.7, 8.7.2, 10, 10.1
VN17212	2	1, 2, 2.1, 2.3, 2.5, 2.6, 2.10, 2.13, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 2.37, 2.41, 2.42, 2.46, 2.59, 2.60, 2.61, 2.62, 2.63, 3, 5, 5.4, 5.7, 5.8, 5.9, 5.22, 5.25, 6.1, 6.4, 6.4.2, 6.4.3,, 6.4.4, 6.4.5, 6.4.6, 6.4.15, 6.4.21, 6.4.24, 6.4.25, 7, 7.4.5, 7.4.10, 7.4.15, 8.1, 8.5, 8.5.1, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.2, 9.3, 9.3.1, 9.3.2, 10.1, 10.2, and 10.4.			
Family members		US9148659			
Xylene Holdings S.A.	VP9-018	Exemplary Patent/s	BRPI0214328	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
	VP9-053	Exemplary Patent/s	BR112012025206.2	1	1, 2, 4.9.5, 5.1, 5.5, 5.6, 6.4.10, 6.4.21, 8.5.2, 8.6, 9.2, 9.3

Xylene Holdings S.A.	VP9-053	Exemplary Patent/s	CA2795425	2	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			CN106998473	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			CN107046644	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			IN416539	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			JPO6605063	1	1, 2, 4.9.5, 5.1, 5.5, 5.6, 6.4.10, 6.4.21, 8.5.2, 8.6, 9.2, 9.3	
			MX353107	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			MX353109	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			RU2663374	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			RU2716032	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			SG102015022265	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			TWI688267	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			TWI765223	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			US10390011	1	1, 2, 4.9.5, 5.1, 5.5, 5.6, 6.4.10, 6.4.21, 8.5.2, 8.6, 9.2, 9.3	
			US10412385	1	1, 2, 4.9.5, 5.1, 5.5, 5.6, 6.4.10, 6.4.21, 8.5.2, 8.6, 9.2, 9.3	
			US9973753	1	1, 2, 3, 2.39, 2.5, 2.15, 2.16, 2.17, 2.22, 4.9.5, 5.1, 5.5, 5.6, 6.2.3, 6.2.6, 6.4.3, 6.4.3, 6.4.4, 6.4.21, 7.4.3, 8.5, 8.5.2, 9.2, 9.3, 9.3.1, 9.3.3, 10.2	
			Family members	KR101389163		
				KR101500914		
				KR101540899		
		KR101817481				
		MX315648				
		MX321449				
		MX322916				
		MX332789				
		MX332791				
		RU2020107720				
		RU2523071				
		RU2573222				
		RU2627101				
RU2699049						
SG184528						
TWI520617						
TWI601415						
US10469839						
US10554970						
VP9-079	Exemplary Patent/s	BR112013006499.4	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		
		CN103222265	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		
		CN106454379	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		
		CN106713930	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		
		HK1186031	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		
		IN359148	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1		

Xylene Holdings S.A.	VP9-079	Exemplary Patent/s	JP5486091	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			KR101554792	2	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			MX324042	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			MX326851	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			MX326852	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			MX326853	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			MX326854	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			RU2549512	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			RU2597499	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			RU2654136	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			SG10201506682S	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			SG10201802064V	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			SG189114	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			TWI571108	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			US9369730	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			US9894376	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			US9900611	1	1, 2, 5.5, 5.13, 6.4.3, 6.4.4, 6.4.5, 6.4.13, 6.4.15, 6.4.16, 6.4.18, 6.5, 6.5.1, 6.5.7, 6.5.8, 7.2.6, 7.3.6, 7.4.11, 7.4.13, 8.5.2, 8.6.2, 9.2, 9.2.1			
			Family members			CA2813232		
						CA3033984		
						CN106488249		
			CN106713931					
			JP6071922					
			JP6312787					
			KR101723282					
			KR101829594					
			KR101914018					
			KR102013093					
			RU2680199					
			RU2706179					
			SG10201701439W					
			SG10201707379S					
			TWI581622					
			US9894375					
			US9900612					

**VP9 Expired Patent List**

Company	VP9 Family	Pat.Nr	Claim	Illustrative section(s) of the VP9 specification	
Dolby International AB	VP9-001	Exemplary Patent/s	CA2406459	18	2.3, 2.16, 2.17, 2.19, 2.20, 2.22, 2.25, 2.26, 2.27, 2.41, 2.42, 2.43, 2.51, 2.52, 5.5, 8.5, 8.5.2, 8.5.2.4
			US6728317	2	2.3, 2.16, 2.17, 2.19, 2.20, 2.22, 2.25, 2.26, 2.27, 2.41, 2.42, 2.43, 2.51, 2.52, 5.5, 8.5, 8.5.2, 8.5.2.4
	VP9-003	Exemplary Patent/s	US8576907	19	2.5, 2.10, 2.16, 2.17, 2.22, 2.45, 2.46, 2.52, 2.61, 2.62, 4.7, 6.2, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			US8594188	21	1, 2.5, 2.10, 2.16, 2.17, 2.22, 2.37, 2.38, 2.45, 2.46, 2.52, 2.57, 2.60, 2.61, 2.62, 4.6, 5.3, 5.6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 6.4.24, 6.4.26, 7, 7.1, 7.2.9, 7.4.3, 8.6, 8.6.1, 8.6.2
			US9667957	1	1, 2.1, 2.3, 2.5, 2.10, 2.14, 2.16, 2.17, 2.18, 2.22, 2.36, 2.45, 2.46, 2.59, 2.61, 2.62, 5.20, 5.26, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4.24, 6.4.26, 7.1, 7.2.9, 7.4.16, 7.4.17, 8.1, 8.6, 8.6.1, 8.6.2, B.1, B.4
		Family members	US10264256		
	VP9-004	Exemplary Patent/s	BNRE/R/2013/0091	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			CN1250003	1	2, 4.9.2, 5.1, 5.5, 6.2.9, 6.2.10, 7.2, 7.2.9, 8.6.1
			EP2239943 (DE)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (ES)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (FI)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (FR)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (GB)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (IT)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (NL)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (SE)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (SK)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			EP2239943 (TR)	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			HK1148152	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			IN288863	1	1, 2, 4.9.2, 5.1, 5.5, 6.2.9, 6.2.10, 7.2, 7.2.9, 8.6.1, 9.3.2
			JP5178389	1	1, 2.3, 2.5, 2.9, 2.10, 2.11, 2.12, 2.16-2.20, 2.22, 2.25-2.27, 2.36-2.38, 2.41-2.43, 2.45, 2.46, 2.48, 2.49, 2.51, 2.52, 2.56, 2.57, 2.59-2.63, 4.6, 5.6, 5.12, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 7.1, 7.2.9, 8.6, 8.6.1, 8.6.2
			JP5506645	1	2, 4.9.2, 5.1, 5.5, 6.2.9, 6.2.10, 7.2, 7.2.9, 8.6.1
			JP5506903	5	2, 2.3, 2.16, 2.17, 2.22, 5.19, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			JP5506904	1	2, 2.3, 2.16, 2.17, 2.22, 2.45, 4.9.2, 5.19, 6.2.9, 6.2.10, 7.2.9, 8.6, 8.6.1, 8.6.2
			JP5506905	1	1, 2, 4.9.2, 5.1, 5.5, 6.2.9, 6.2.10, 7.2, 7.2.9, 8.6.1, 9.3.2
			SG10201508768W	1	2, 2.3, 2.16, 2.17, 2.22, 2.45, 4.9.2, 5.19, 6.2.9, 6.2.10, 7.2.9, 8.6, 8.6.1, 8.6.2
			SG193680	6	2, 5.1, 6.2.9, 7.2.9, 8.6, 8.6.1, 8.6.2
			US10110908	5	1, 2.3, 2.5, 2.9, 2.10, 2.11, 2.16, 2.17, 2.22, 2.36, 2.45, 2.53, 2.59, 3, 4.6, 5.19, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.2.11, 7.2.9, 7.2.10, 8, 8.1, 8.6, 8.6.1, 8.6.2
			US10158865	5	1, 2.3, 2.5, 2.9, 2.10, 2.11, 2.16, 2.17, 2.22, 2.36, 2.45, 2.53, 2.59, 3, 4.6, 4.7, 5.19, 6, 6.1, 6.2, 6.2.9, 6.2.10, 6.2.11, 7.2.9, 7.2.10, 8, 8.1, 8.6, 8.6.1, 8.6.2
			US9497471	7	1, 2.3, 2.5, 2.9, 2.10, 2.11, 2.12, 2.16-2.20, 2.22, 2.25-2.27, 2.36-2.38, 2.41-2.43, 2.45, 2.46, 2.48, 2.49, 2.51, 2.52, 2.56, 2.57, 2.59-2.63, 4.6, 5.6, 5.12, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 7.1, 7.2.9, 8.6, 8.6.1, 8.6.2
			US9584816	1	1, 2.3, 2.5, 2.9, 2.10, 2.11, 2.16, 2.17, 2.18, 2.22, 2.36, 2.45, 2.46, 2.52, 2.56, 2.57, 2.59, 2.60, 2.63, 4.6, 5.1, 5.6, 6.1, 6.2, 6.2.9, 6.2.10, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.21, 7, 7.1, 7.2.9, 7.4.3, 8.6, 8.6.1, 8.6.2
			US9986249	8	1, 2.3, 2.5, 2.9, 2.10, 2.16, 2.17, 2.22, 2.36, 2.45, 2.53, 2.59, 3, 4.6, 5.19, 6, 6.1, 6.2, 6.2.9, 6.2.10, 7.2.9, 8, 8.1, 8.6, 8.6.1, 8.6.2
			Family members	AU2002316676	
AU2007203288					
CA2452506					
MX277175					
SG201303747-8					

Dolby International AB	VP9-004	Family members	SG2013037486		
			US9578341		
	VP9-005	Exemplary Patent/s	AU2014204511	1	1, 2.3, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.49, 2.55, 2.58, 4.7, 5.1, 5.10, 5.26, 6.2, 6.4.17, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.5.2, 8.9, 8.10, B.1, B.4
			AU2014204513	1	1, 2.3, 2.12, 2.16, 2.17, 2.22, 2.40-2.42, 2.49, 2.59, 5.10, 5.12, 6, 6.1, 6.2, 6.3.18, 6.4, 6.4.3-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 6.4.21, 6.4.26, 7.2, 7.3.6, 7.4.10-7.4.12, 8.1, 8.5.2, 8.6, 8.6.2, 8.10
			AU2015218514	1	1, 2.3, 2.10, 2.16, 2.17, 2.22, 2.27, 2.49, 2.58, 4.7, 5.10, 5.26, 6.2, 6.4.17, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.5.2, 8.9, 8.10, B.1, B.4
			IN310087	1	2.2, 2.5, 2.10, 2.12, 2.15, 2.17, 2.22, 2.24, 2.25, 2.26, 2.27, 2.39, 2.42, 2.43, 2.49, 2.52, 2.53, 3, 5.5, 5.10, 5.12, 6.2, 6.3.12, 6.3.18, 6.4.4, 6.4.17, 6.4.20, 7.2, 7.4.12, 7.4.14, 8.1, 8.5, 8.5.2, 8.5.2.3, 8.5.2.4, 8.10
			MY-170517-A	1	1, 2.3, 2.12, 2.16, 2.17, 2.22, 2.40-2.42, 2.49, 2.59, 5.10, 5.12, 6, 6.1, 6.2, 6.3.18, 6.4, 6.4.3-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 6.4.21, 6.4.26, 7.2, 7.3.6, 7.4.10-7.4.12, 8.1, 8.5.2, 8.6, 8.6.2, 8.10
			US10080035	1	1, 2.3, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.49, 2.58, 4.7, 5.10, 5.26, 6.2, 6.4.17, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.5.2, 8.9, 8.10, B.1, B.4
			US8559513	1	1, 2.3, 2.12, 2.16, 2.17, 2.22, 2.40-2.42, 2.49, 2.59, 5.10, 5.12, 6, 6.1, 6.2, 6.3.18, 6.4, 6.4.3-6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 6.4.21, 6.4.26, 7.2, 7.3.6, 7.4.10-7.4.12, 8.1, 8.5.2, 8.6, 8.6.2, 8.10
			US8699572	1	1, 2.3, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.49, 2.55, 2.58, 4.7, 5.1, 5.10, 5.26, 6.2, 6.4.17, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.5.2, 8.9, 8.10, B.1, B.4
		US8761257	1	1, 2.3, 2.10, 2.16, 2.17, 2.22, 2.27, 2.49, 2.58, 4.7, 5.10, 5.26, 6.2, 6.4.17, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.5.2, 8.9, 8.10, B.1, B.4	
		US8942285	1	2.2, 2.5, 2.10, 2.12, 2.15, 2.17, 2.22, 2.24, 2.25, 2.26, 2.27, 2.39, 2.42, 2.43, 2.49, 2.52, 2.53, 3, 5.5, 5.10, 5.12, 6.2, 6.3.12, 6.3.18, 6.4.4, 6.4.17, 6.4.20, 7.2, 7.4.12, 7.4.14, 8.1, 8.5, 8.5.2, 8.5.2.3, 8.5.2.4, 8.10	
VP9-006	Exemplary Patent/s	AU2013200690	1	2, 2.1, 2.2, 2.3, 2.5, 2.10, 2.11, 2.12, 2.14, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.37, 2.38, 2.39, 2.41, 2.42, 2.43, 2.49, 2.51, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 2.61, 2.62, 5.1, 5.6, 5.12, 5.13, 6.3, 6.3.12, 6.3.13, 6.3.16, 6.3.17, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.23, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.8, 6.5.10, 6.5.11, 6.5.12, 6.5.14, 7.3.6, 7.4.1, 7.4.3, 7.4.12, 7.4.13, 7.4.14, 8.5, 8.5.2, 8.5.2.1	
		AU2013206639	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.3, 6.4.3, 6.4.4, 6.4.21, 6.4.23, 7.3.1, 7.4.3, 7.4.4, 8, 8.5, 8.5.2, 8.5.2.1, 8.6.2, 10.2	
		AU2015218509	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.4.3, 6.4.21, 6.4.23, 7.4.3, 8, 8.5, 8.5.2, 8.5.2.1	
		AU2018200702	1	1, 2.3, 2.5, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.58, 2.59, 5.5, 5.6, 5.26, 6.2, 6.2.7, 6.3.12, 6.4.3, 6.4.4, 6.4.16, 6.4.17, 6.4.21, 6.4.23, 7.1, 7.2.7, 7.3.6, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.12, 8, 8.1, 8.5, 8.5.2, 8.5.2.1, 10.2, B.1, B.4	
		MY-162999-A	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.3, 6.4.3, 6.4.4, 6.4.21, 6.4.23, 7.3.1, 7.4.3, 7.4.4, 8, 8.5, 8.5.2, 8.5.2.1, 8.6.2, 10.2	
		MY-171283-A	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.4.3, 6.4.21, 6.4.23, 7.4.3, 8, 8.5, 8.5.2, 8.5.2.1	

Dolby International AB	VP9-006	Exemplary Patent/s	US8379720	1	2, 2.1, 2.2, 2.3, 2.5, 2.10, 2.11, 2.12, 2.14, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.37, 2.38, 2.39, 2.41, 2.42, 2.43, 2.49, 2.51, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 2.61, 2.62, 5.1, 5.6, 5.12, 5.13, 6.3, 6.3.12, 6.3.13, 6.3.16, 6.3.17, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.23, 6.5, 6.5.1, 6.5.6, 6.5.7, 6.5.8, 6.5.10, 6.5.11, 6.5.12, 6.5.14, 7.3.6, 7.4.1, 7.4.3, 7.4.12, 7.4.13, 7.4.14, 8.5, 8.5.2, 8.5.2.1
			US8526496	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.3, 6.4.3, 6.4.4, 6.4.21, 6.4.23, 7.3.1, 7.4.3, 7.4.4, 8, 8.5, 8.5.2, 8.5.2.1, 8.6.2, 10.2
			US8542738	1	1, 2.3, 2.5, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 2.60, 4.7, 5.6, 6.4.3, 6.4.21, 6.4.23, 7.4.3, 8, 8.5, 8.5.2, 8.5.2.1
			US8737472	1	1, 2.3, 2.5, 2.10, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.59, 4.7, 5.5, 5.6, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.20, 6.4.21, 6.4.23, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.4.3, 7.4.13, 7.4.14, 8, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.5.2.2, 8.5.2.3, 8.5.2.4, 8.6.2
			US8873632	1	1, 2.3, 2.5, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.58, 2.59, 4.7, 5.5, 5.6, 6.2.7, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.18, 6.4.19, 6.4.21, 6.4.23, 6.5.1, 6.5.6, 6.5.7, 6.5.10, 6.5.11, 6.5.12, 7.2.7, 7.4.3, 7.4.11, 7.4.13, 8, 8.1, 8.5, 8.5.2
			US9549201	1	1, 2.3, 2.5, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.39, 2.49, 2.52, 2.53, 2.56, 2.57, 2.58, 2.59, 5.5, 5.6, 5.26, 6.2, 6.2.7, 6.3.12, 6.4.3, 6.4.4, 6.4.16, 6.4.17, 6.4.21, 6.4.23, 7.1, 7.2.7, 7.3.6, 7.4.3, 7.4.4, 7.4.9, 7.4.11, 7.4.12, 8, 8.1, 8.5, 8.5.2, 8.5.2.1, 10.2, B.1, B.4
	US9571855	1	1, 2.3, 2.5, 2.10, 2.12, 2.16, 2.17, 2.22, 2.27, 2.49, 2.52, 2.53, 2.56, 2.57, 2.58, 2.59, 5.26, 5.5, 5.6, 6.2, 6.2.7, 6.3.12, 6.4.3, 6.4.4, 6.4.13, 6.4.16, 6.4.17, 6.4.21, 6.4.23, 7.1, 7.2.7, 7.3.6, 7.4.3, 7.4.4, 7.4.11, 7.4.12, 8, 8.1, 8.5, 8.5.2, 8.5.2.1, 10.2, B.1, B.4		
	VP9-007	Exemplary Patent/s	AU2014268171	1	s 1, 2, 2.1, 2.2, 2.24, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 5, 5.4, 5.5, 5.10, 5.11, 5.12, 5.25, 7, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.2, 8.5, 8.5.2, 8.5.2.4
			US8767829	1	s 1, 2, 2.1, 2.2, 2.24, 2.25, 2.26, 2.27, 2.28, 2.29, 2.31, 5, 5.4, 5.5, 5.10, 5.11, 5.12, 5.25, 7, 7.1, 7.2, 7.3.6, 7.4.12, 8.1, 8.2, 8.5, 8.5.2, 8.5.2.4
			US8995528	9	1, 2.3, 2.5, 2.16, 2.17, 2.26, 2.27, 2.49, 6.2, 6.4.4, 6.4.5, 6.4.11, 6.4.16, 6.4.17, 7.2, 7.3.6, 7.4.12, 8, 8.1, 8.5.2, 8.5.2.4
	VP9-009	Exemplary Patent/s	US6507618	13	2.3, 2.19, 2.20, 2.22, 2.28, 2.29, 2.31, 2.41, 2.42, 2.52, 2.54, 2.56, 2.57, 2.60, 5.1, 5.6, 5.14, 6.1, 6.2, 6.2.13, 6.2.14, 6.4, 6.4.2, 6.4.3, 6.4.4, 7.1, 7.2, 7.2.11, 7.4.1, 7.4.2, 7.4.3, 7.4.4
	VP9-012	Exemplary Patent/s	CN100542042	1	1, 2, 8.5.2, 8.6, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2
			EP1500197 (DE)	1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2
EP1500197 (ES)			1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2	
EP1500197 (FR)			1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2	
EP1500197 (GB)			1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2	
EP1500197 (IT)			1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2	
EP1500197 (TR)			1	8.5.2, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5.1, 8.8.5.2	
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JP4886985			1	1, 2, 8.5.2, 8.6, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.5, 8.8.5.1, 8.8.5.2	
KR100988984			17	8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.5, 8.8.5.1, 8.8.5.2	
MX249051	17	1, 2.3, 2.5, 2.9, 2.10, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.35, 2.41, 2.42, 2.43, 2.48, 2.51, 2.52, 2.59, 2.61, 2.62, 8.5, 8.5.2, 8.6.2, 8.7, 8.7.2, 8.8, 8.8.1, 8.8.2, 8.8.4, 8.8.5, 8.8.5.1			

Dolby International AB	VP9-012	Exemplary Patent/s	MY-135724-A	17	1, 2.3, 2.5, 2.9, 2.10, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.35, 2.41, 2.42, 2.43, 2.48, 2.51, 2.52, 2.59, 2.61, 2.62, 8.5, 8.5.2, 8.6.2, 8.7, 8.7.2, 8.8, 8.8.1, 8.8.2, 8.8.4, 8.8.5, 8.8.5.1
			TH41839	17	1, 2.3, 2.5, 2.9, 2.10, 2.16, 2.17, 2.22, 2.25, 2.26, 2.27, 2.32, 2.35, 2.41, 2.42, 2.43, 2.48, 2.51, 2.52, 2.59, 2.61, 2.62, 8.5, 8.5.2, 8.6.2, 8.7, 8.7.2, 8.8, 8.8.1, 8.8.2, 8.8.4, 8.8.5, 8.8.5.1
Dolby International AB	VP9-013	Exemplary Patent/s	JP3688248	3	1, 2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2
			JP4120989	2	2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2
			JP4666411	2	2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2
			JP4723026	1	1, 2, 4.7, 7.2.10, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2, 9.2
			JP4723027	1	1, 2, 4.7, 7, 7.2.10, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2, 9.2
			US7352812	1	1, 2.5, 2.17, 2.22, 2.27, 2.29, 2.30, 2.35, 2.39, 2.41, 2.42, 2.48, 2.49, 2.51, 2.52, 5.23, 5.24, 6.1, 6.2, 6.2.3, 6.2.6, 6.2.8, 6.2.13, 6.2.14, 6.3, 6.3.1, 6.3.12, 6.3.18, 6.4, 6.4.2-6.4.6, 6.4.8, 6.4.10, 6.4.13, 6.4.15-6.4.19, 6.4.21-6.4.24, 6.5, 6.5.1, 6.5.6, 6.5.10-6.5.12, 7.2, 7.2.3, 7.2.5, 7.2.6, 7.2.8, 7.2.11, 7.3, 7.3.1, 7.3.6, 7.4.1, 7.4.3-7.4.5, 7.4.7-7.4.13, 7.4.15, 7.4.16, 8.1, 8.5, 8.5.2, 8.5.2.1, 8.5.2.4, 8.6, 8.6.1, 8.6.2, 8.7.2, 8.8, 8.8.1, 8.8.2, 8.8.3, 8.8.4, 8.8.5, 8.8.5.1, 8.8.5.2
			USRE43628	12	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.49, 4.7, 6.4.16, 7.2.10, 7.4.7, 8, 8.1, 8.5.2, 8.5.2.3, 8.8, 8.8.2
			USRE44497	19	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.49, 2.51, 3, 7.2.10, 7.4.7, 8, 8.1, 8.5.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.8, 8.8.2, 8.10
			USRE46482	19	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.49, 2.51, 7.2.10, 7.4.7, 8, 8.1, 8.5.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.8, 8.8.2
			USRE47202	18	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.49, 2.51, 7.2.10, 7.4.7, 8, 8.1, 8.5.2, 8.5.2.3, 8.5.2.4, 8.6.2, 8.8, 8.8.2
	Family members	EP1727373 (DE)			
		EP1727373 (FR)			
		EP1727373 (GB)			
		EP2278815 (DE)			
		EP2278815 (FR)			
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		HK1134615			
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JP4717137					
JP4717138					
JP4723024					
JP4723025					
US7929610					
USRE45250					
Dolby International AB	VP9-014	Exemplary Patent/s	CA2989854	1	1, 2.3, 2.5, 2.10, 2.15, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.35, 2.39, 2.46, 2.49, 2.52, 2.53, 2.54, 2.59, 2.61, 2.62, 3, 6.2, 6.2.11, 6.4.4, 6.4.6, 6.4.8, 6.4.9, 6.4.11, 7.2.10, 7.4.7, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.8, 8.8.2
			CA2989883	1	1, 2.16, 2.17, 2.27, 2.35, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.10
			CA3001216	1	1, 2.16, 2.17, 2.27, 2.35, 2.46, 2.49, 5.1, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.9, 8.10
			CA3001227	1	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.8.4, 8.8.5, 8.8.5.2

Dolby International AB	VP9-014	Exemplary Patent/s	CA3011301	1	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.8.4, 8.8.5	
			CN1311691	3	1, 2, 5.5, 5.15, 5.23, 5.24, 7.2.8, 7.2.10, 7.4.7, 7.4.9, 7.4.12, 7.4.13, 8.1, 8.8, 8.8.2	
			HK1070223	3	1, 2, 5.5, 5.15, 5.23, 5.24, 7.2.8, 7.2.10, 7.4.7, 7.4.9, 7.4.12, 7.4.13, 8.1, 8.8, 8.8.2	
			JP4372197	2	2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2	
			JP4672065	1	2, 7, 7.2, 7.4.7, 8, 8.1, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.1.3, 8.8, 8.8.2, 8.8.4, 8.8.5	
			JP4672074	2	2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2, 8.8.4, 8.8.5	
			JP4672077	1	2, 7, 7.2, 7.4.7, 8, 8.1, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.7.1.3, 8.8, 8.8.2, 8.8.4, 8.8.5	
			JP4672078	2	2, 7.2.10, 8, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.7, 8.8, 8.8.2	
			KR10612785	5	2.16, 2.17, 2.39, 2.49, 3, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 7.2.10, 7.4.12, 7.4.13, 8, 8.1, 8.8, 8.8.2	
			KR10785588	11	2.16, 2.17, 2.39, 3, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.16, 6.4.18, 7.2.10, 7.4.13, 8, 8.1, 8.8, 8.8.2	
			KR10785589	10	2.27, 2.39, 2.49, 3, 6.2.11, 6.4.4, 6.4.5, 6.4.8, 6.4.9, 6.4.11, 6.4.16, 6.4.17, 6.4.18, 7.2.10, 7.4.12, 7.4.13, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2	
			US10178386	1	1, 2.3, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.10	
			US10257511	1	1, 2.3, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.10	
			US9344730	1	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.8.4, 8.8.5	
			US9407913	1	1, 2.3, 2.5, 2.10, 2.15, 2.17, 2.18, 2.22, 2.25, 2.26, 2.27, 2.35, 2.39, 2.46, 2.49, 2.52, 2.53, 2.54, 2.59, 2.61, 2.62, 3, 6.2, 6.2.11, 6.4.4, 6.4.6, 6.4.8, 6.4.9, 6.4.11, 7.2.10, 7.4.7, 8.5, 8.5.2, 8.6, 8.6.1, 8.6.2, 8.8, 8.8.2	
			US9407914	1	1, 2.16, 2.17, 2.27, 2.35, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.10	
			US9503759	1	1, 2.16, 2.17, 2.27, 2.35, 2.39, 2.46, 2.49, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.5.2, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.8.4, 8.8.5	
			US9866834	1	1, 2.16, 2.17, 2.27, 2.35, 2.46, 2.49, 5.1, 6.4.21, 6.4.24, 7.2.10, 7.4.7, 7.4.15, 7.4.16, 8, 8.1, 8.6.2, 8.7.2, 8.8, 8.8.2, 8.9, 8.10	
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Dolby International AB	VP9-014	Family members	EP1562384 (IT)		
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			JP5222343		
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			KR10751670		
			US7450641		
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US8040957					
US8891634					
US9124888					
VP9-015	Exemplary Patent/s	AU2002316666	1	2.12, 2.22, 2.26, 2.27, 2.29, 2.31, 2.52, 2.53, 4.6, 5.12, 6.1, 6.2, 6.3, 6.3.12, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 7.2, 7.3.6, 7.4.9, 7.4.12, 8.5, 8.5.2	
		MY-154424-A	1	2.12, 2.22, 2.26, 2.27, 2.29, 2.31, 2.52, 2.53, 4.6, 5.12, 6.1, 6.2, 6.3, 6.3.12, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 7.2, 7.3.6, 7.4.9, 7.4.12, 8.5, 8.5.2	
		SG102730	1	2.12, 2.22, 2.26, 2.27, 2.29, 2.31, 2.52, 2.53, 4.6, 5.12, 6.1, 6.2, 6.3, 6.3.12, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 7.2, 7.3.6, 7.4.9, 7.4.12, 8.5, 8.5.2	
		US6816552	1	2.12, 2.22, 2.26, 2.27, 2.29, 2.31, 2.52, 2.53, 4.6, 5.12, 6.1, 6.2, 6.3, 6.3.12, 6.3.18, 6.4, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.11, 6.4.13, 6.4.16, 6.4.17, 7.2, 7.3.6, 7.4.9, 7.4.12, 8.5, 8.5.2	
	Family members	CA2452504			
		CN100373791			
		JP4339680			
Godo Kaisha IP Bridge 1	VP9-046	Exemplary Patent/s	CN101035291	1	1, 2, 3, 5.10, 5.15, 5.25, 6.2, 6.2.11, 6.4.4, 6.4.9, 6.4.16, 6.4.17, 7.4.12, 8.5.2, 8.5.2.4

Godoo Kaisha IP Bridge 1	VP9-046	Exemplary Patent/s	CN1312936	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, and 8.3.1.	
			EP1739972 (AT)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (BE)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (CH)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (CZ)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (DE)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (ES)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (FR)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (GB)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (HU)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (IT)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (LI)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (MC)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (NL)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (RO)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1739972 (SE)	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, 8.3.1	
			EP1742481 (DE)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			EP1742481 (ES)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			EP1742481 (FR)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			EP1742481 (GB)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			EP1742481 (IT)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			EP1742481 (NL)	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			JP4722153	1	2, 3, 5.1, 5.5, 5.10, 5.15, 6.4.16, 6.4.17, 8.5.2, 8.5.2.4	
			KR100944851	1	1, 2, 3, 4.10.1-4.10.10, 5.9.2, 5.9.14, 5.10, 5.11.1, 5.11.2, 5.11.4, 5.11.5, 5.11.23, 5.11.25, 6.8.13, 6.10.24, 7.11.1, 7.11.3.1, 8.1, 8.2.1, and 8.3.1.	
			KR100944852	1	2.25, 2.26, 2.27, 2.49, 2.54, 3, 6.2.11, 6.4.9, 6.4.17, 7.2.10, 7.4.12, 8.5.2, 8.5.4, 8.6.2	
			Family members	CN100581260		
				CN101035290		
				EP1450565 (DE)		
		EP1450565 (ES)				
		EP1450565 (FR)				
		EP1450565 (GB)				
		EP1450565 (IT)				
EP1450565 (NL)						
EP1739973 (DE)						
EP1739973 (ES)						
EP1739973 (FR)						
EP1739973 (IT)						
EP1739973 (NL)						

Godou Kaisha IP Bridge 1	VP9-046	Family members	JP4718578		
			JP4767991		
			KR100944853		
			KR100976672		
			US10080033		
			US9473774		
			US9473775		
			US9706224		
			US9813728		
			US9813729		
US9998756					

Xylene Holdings S.A.	VP9-018	Exemplary Patent/s	AU2002353749	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			AU2007219272	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			CA2467496	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (AT)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (BE)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (BG)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (CH)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (CY)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (CZ)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (DE)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (DK)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (EE)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (ES)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (FI)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (FR)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (GB)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (GR)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (IE)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (IT)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (LI)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (LU)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (MC)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (NL)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (PT)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (SE)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (SK)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			EP1449383 (TR)	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			IN218194	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			KR100984612	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
			RU2307478	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3

Xylene Holdings S.A.	VP9-018	Exemplary Patent/s	ZA200403131	1	5.13, 6.4.16, 6.4.18, 7.4.11, 7.4.13, 8.5.2.1, 8.5.2.2, 8.5.2.3
		Family members	CN100380973		
			JP4440640		