

From: Wuyts, Koenraad [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=ED2AA9434C9943AE98B378CA7D25E5B2-WUYTS002]
Sent: 12/15/2021 1:36:41 PM
To: [REDACTED] 안철우 [REDACTED] 노지성 [REDACTED] 권홍주 [REDACTED] 장호진 [REDACTED]
CC: Gerritse, C.J. (Lia) (KPNCC L&R CIPO Intellectual Property) [REDACTED]
Subject: RE: Settlement, License and Non-Assertion Agreement between Samsung and KPN - update KPN's patent portfolio
Attachments: Annex 1 - KPN's Patent Portfolio & Standards.pdf

Dear colleagues

Further to my below messages, please find enclosed an updated overview of KPN's patent positions that are of relevance to the sales by SAMSUNG of smartphones, phones, tablets, smartwatches, smarthome, TV and other terminals, and mobile network infrastructure technology and TV platforms and the like, that are compliant with 5G, LTE, WiFi, VVC and the other technologies referenced in Annex 1 to this message.

The corresponding set of claim charts for all of the referenced patent positions can be downloaded from the enclosed link :

[Claim Charts KPN](#)

https://filetransfer.kpn.com/download/38f623c3-c039-4149-8612-2391003f0aab#ZGUpVERW_1Dawk0xK1Cq-dCI9yhp_rIPFZOphpYjQSc

Please note that this link will also be available for seven (7) days as from today.

Best regards,

And with my best wishes for a fine and healthy 2022 for all you, your colleagues and families,

Koen

From: Wuyts, Koenraad
Sent: Wednesday, December 2, 2020 4:02 PM
To: [REDACTED]; 안철우 [REDACTED]; 노지성 [REDACTED]; 권홍주 [REDACTED]; 장호진 [REDACTED]
Cc: Gerritse, C.J. (Lia) (KPNCC L&R CIPO Intellectual Property) [REDACTED]
Subject: RE: Settlement, License and Non-Assertion Agreement between Samsung and KPN - update KPN's patent portfolio

Dear colleagues

While hoping that you do well these days, further to KPN's below message, please find enclosed an updated overview of KPN's patents.

Claim charts can be retrieved under the enclosed link - [link](#) – until December 22 upcoming.

Best regards

Koen

From: Wuyts, Koenraad

Sent: Monday, July 1, 2019 8:00 PM

To: [REDACTED]; 안철우 [REDACTED]; 노지성 [REDACTED]; 권흥주 [REDACTED]
[REDACTED] 장호진 [REDACTED]

Subject: RE: Settlement, License and Non-Assertion Agreement between Samsung and KPN

Dear colleagues

Further to the license agreement signed back in 2016 between Samsung and KPN, we herewith send you an updated list of KPN's patents, in use or to be used by your company, and notifying Samsung herewith of the same. While we are aware about the non-assert agreement between Samsung and KPN, KPN respecting this, with this message we notify you of an updated list of KPN's patents, relevant for your company's business. May you wish to receive claim charts as to these patents or discuss any related topic please let us know.

Best regards

Koen

Granted Patent No.	Application or Publication No.	Family members	Expiry	Relevant standard(s)
US 9,549,426 C1			2034	
US 9,750,065			2036	
US 9,907,101				3GPP TS 23.501 3GPP TS 23.502
EP 3 022 983		DE, FI, FR, GB, NL, SE		
	CN 111132169			
CN 105 532 070				
CN 102 318 386				3GPP TS 33.501
EP 2 377 337		DE, FR, GB, IT, NL	2029	3GPP TS 33.501
US 8,881,235				3GPP TS 33.501
EP 2 387 844			2030	3GPP TS 24.371
	IN 1414/MUMNP/2011			3GPP TS 23.228
IN 346 407				
CN 102 356 623				
US 9,667,669				
JP 5 436 577				
KR 10-1 287 322				
JP 4 987 126			2028	
US 8,549,151				
US 9,654,330				
EP 2 225 866		DE, FR, GB, FI, IT, NL, PL, SE, TR,		
EP 3 349 412		DE, FR, GB, IT, NL, PL		
	EPD 19209316.9			
ZL201510580059.7	CN 101953136			
ZL200880121914.6	CN105208020			
HK11103945.7				
IN 273 904				
JP 6 636 329			2033	3GPP TS 23.288v16.0.0

Granted Patent No.	Application or Publication No.	Family members	Expiry	Relevant standard(s)
ZL201380061241.0	CN 104982059			
	EP 3 474 589			
EP 2 923 511		DE,ES, FR, GB, NL, TR	2033	3GPP TS 23.288v16.0.0
US 10,924,500				
EP 2 299 649		DE, ES, FI, FR, GB, HU, IT, NL, PL, SE	2030	
US 8,601,141				
JP 5 237 340				
CN 102 025 723				
EP 2 342 538		DE, ES, FI, FR, GB, NL, PL, SE	2029	
CN 102 265 119				
EP 2 615 421		DE, FI, FR, GB, NL, SE, CH, IT		
	EPD 3 457 090			
US 9,372,098			2030	3GPP TS 23.501v16.2.0 3GPP TS 23.502v16.2.0 3GPP TS 24.501v16.4.1 3GPP TS 23.401v16.4.0 3GPP TS 23.682v16.4.0
US 10,419,910				
US 10,841,769				
IN 341 508				
EP 2 250 835 B2		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE	2029	3GPP TS 22.368 v15
EP 2 337 403 B2		DE, FI, FR, GB, NL, SE		3GPP TS 23.501 v15
EP 2 291 033		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE		3GPP TS 24.501 v15
	EP 2 291 032			
EP 2 400 734		DE, FR, GB, NL		
US 9,014,667**				
US 9,247,426			2030	
US 9,253,637			2030	

Granted Patent No.	Application or Publication No.	Family members	Expiry	Relevant standard(s)
US 9,781,743				
US 10,187,904				
KR 10-1 231 986				
JP 5 308 459				
JP 5 684 323				
JP 5 841 566			2029	
JP 5 926 433				
CN 101 960 886			2029	
CN 103 139 696				
CN 103 139 698				
IN 273 372				
	IN201628012050			
	IN201628012051			
	IN201628012052			
	IN201628012053			
EP 2 517 495		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 37.320v16.2.0 3GPP TS 32.422v16.4.0 3GPP TS 28.627v16.0.0 3GPP TS 28.628v16.1.0 3GPP TS 38.331v16.2.0 3GPP TS 38.304v16.3.0 3GPP TS 38.306v16.3.0
JP 5 536 230				
US RE48,089				
CN 102 960 015				
EP 2 486 750		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 38.300v16.3.0 3GPP TS 37.320v16.2.0 3GPP TS 32.422v16.4.0 3GPP TS 38.331v16.2.0 3GPP TS 38.304v16.3.0 3GPP TS 38.306v16.3.0
US 8,660,560				
JP 5 600 176				
ZL201180066222.8	CN 103329499		2031	
EP 2 647 170		DE, ES, FI, FR, GB, IT, NL, SE		3GPP TS 23.228v11.5.0

KPN's Patent Portfolio and Standards

Granted Patent No.	Application or Publication No.	Family members	Expiry	Relevant standard(s)
IN 358882				
JP 6 050 240				
EP 1 634 410		BE, DE, FI, FR, GB, IT, NL, SE	2024	
CA 2,528,960				
ZL 200480022865.2	CN1833411A			
HK1091339				
IN 260938				
KR 10-1093248				
SG 117897				
US 8,000,356				
JP 4510014				
EP 2 151 950		DE, ES, FR, GB, IT, NL, PL, SE	2028	
US 8,886,772				
US 9,219,649			2029	
US 9,838,256				
CN102075506				
CN104821891				
IN284558				
	CN111194543			
	EP 3 669 506			
	US 2021/0195271 A1			
US 10,972,778			2038	3GPP TS 26.501v16.6.1, 3GPP TS 23.501v16.7.0,
EP 2 454 858		DE, FI, FR, GB, NL, SE		3GPP TS 23.501v17.1.1 3GPP TS 23.503v17.1.0
EP 2 603 034		DE, FR, GB, NL		
KR 10-1393222				
ZL201080031194.1	CN 102696200			
IN334936				
JP5833697				
US 9,178,822				

Granted Patent No.	Application or Publication No.	Family members	Expiry	Relevant standard(s)
** remanded to first instance IPR				

Granted Patent No.	Application or Publication No.	Family members	Expiry	Illustrative Standard Coverage
EP 2 250 835		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE	2029	3GPP TS 22.368 v10 [3.1, 3.2, 7.1.1, Annex A]
EP 2 337 403		DE, FI, FR, GB, NL, SE		3GPP TS 23.401 v10 [4.3.7.4.1, .2, .3, .4]
EP 2 291 033		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE		3GPP TS 24.301 v10 [5.3.9, 6.3.5, 8.2.3.3, 8.3.19.3]
	EP 2 291 032			
EP 2 400 734		DE, FR, GB, NL		
US 9,014,667**				
US 9,247,426			2030	
US 9,253,637			2030	
US 9,781,743				
US 10,187,904				
KR 10-1 231 986				
JP 5 308 459				
JP 5 684 323				
JP 5 841 566			2029	
JP 5 926 433				
CN 101 960 886			2029	
CN 103 139 696				
CN 103 139 698				
IN 273 372				
	IN201628012050			
	IN201628012051			
	IN201628012052			
	IN201628012053			
EP 2 299 649		DE, ES, FI, FR, GB, HU, IT, NL, PL, SE	2030	3GPP TS 23.228 v10 [4.14]
US 8,601,141				3GPP TS 24.229 v10 [5.3.2.1, 5.3.2.1A, 5.4.3.1, .2, 5.7.1.3A.2, 5.10.1, 5.10.3.2, 7.2A.6.1, .3]
JP 5 237 340				
CN 102 025 723				
JP 4987126			2028	3GPP TS 26.237 V9.11.0 (2013-09) [4.3, 7.1, 4.2.2, 7.1, 8.1, 8.2.3.1, 8.2.3.2, 8.2.4.1, 8.2.4.2, 8.2.4.3, 13.1, 13.2]
US 8,549,151				
US 9,654,330				
EP 2 225 866		DE, FR, GB, FI, IT, NL, PL, SE, TR,		
EP 3 349 412		DE, FR, GB, IT, NL, PL		
	EPD 19209316.9			
ZL200880121914.6	CN101953136			
ZL201510580059.7	CN105208020			
HK11103945.7				
IN 273904				
EP 2 567 564		DE, FI, FR, GB, NL, SE	2031	3GPP TS 32.551 v11 [3.1, 4.1.1]
	EP 2 720 485			3GPP TS 36.300 v11 [20.2.2.15, 22.4.4.2]
	EPD 13196079.1			3GPP TS 36.413 [B.1.14]
CN 102 870 451				
CN 106 060 855				
JP 5 969 983				
JP 6 517 853				
US 9,210,590			2032	
US 9,462,544				

Granted Patent No.	Application or Publication No.	Family members	Expiry	Illustrative Standard Coverage
EP 2 517 495		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 37.320 v10 [4.1 (#4 #7), 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3, Annex A]
JP 5 536 230				3GPP TS 32.422 v10 [6, 4.1.1.6a, 4.1.5]
US RE48,089				3GPP TS 36.304 v10 [8] ; 3GPP TS 36.306 [4.3.13.1]
CN 102 960 015				3GPP TS 32.521 v10 [5.1.5, 5.4.3] ; 3GPP TS 32.522 v10 [4.5.3.1, 4.5.5]
EP 2 387 844				3GPP TS 23.228 [U1.0, U1.2]
	IN 1414/MUMNP/2011			3GPP TS 24.371 V12.6.0 (2017-12)[1, 2, 4.1, 5D1, 5D2]
IN346407				
CN102356623			2030	
US 9,667,669				
JP 5436577			2030	
KR 10-1287322				
EP 2 342 538		DE, ES, FI, FR, GB, NL, PL, SE	2029	3GPP TS 23.401 v13.6.0 [4.11 - 5.3.2 - 5.3.4B]
CN 102265119				3GPP TS 23.682 v13.5.0 [5.13.4]
EP 2615421		DE, FI, FR, GB, NL, SE, CH, IT		
	EPD 3 457 090			
US 9,372,098				
US 10,419,910				
US 10,841,769				
IN 341508				
EP 2 893 734		CH, DE, ES, FI, FR, GB, NL, PL, SE	2033	3GPP TS 23.303 v 12.2.0 [5.6.2 - A.2]
EP 3 079 391		DE, FR, NL, IT, GB, SE		IEEE 802.11i-2004: Amendment 6: [3.95 - 3.97 - 5.9.2.1]
IN 370491				
	CND 201810113682.5			
CN104604272				
JP 6072918				
KR 10-1692171				
US 9,438,572				
US 9,699,820				
EP 2 486 750		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 36.300 v10 [22.3.2a]
US 8,660,560				3GPP TS 37.320 v10 [4.1 (#4 #7), 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3, Annex A]
JP 5 600 176				3GPP TS 32.422 v10 [6, 4.1.1.6a, 4.1.5] ; 3GPP TS 36.331 v10 [5.6.6.1, 5.6.6.2, 6.2.2 (LoggedMeasurementConfiguration)] ; 3GPP TS 36.304 v10 [8] ; 3GPP TS 36.306 [4.3.13.1] ; 3GPP TS 32.521 v10 [5.1.5, 5.4.3] ; 3GPP TS 32.522 v10 [4.5.3.1, 4.5.5]
EP 2 826 223		DE, ES, FR, GB, IT, NL		3GPP TS 23.303 v13.6.0 [3.1 - 3.2 - 5.3.1.2 - 5.3.2A - 5.3.3A.2 - 5.3.3A.4 - 4.6.4.2a]
	EPD 19201166.6			3GPP TS 23.303 v12.8.0 [3.1 - 3.2 - 5.3.1.2 - 5.3.3.2 - 5.3.3.4 - 4.6.4.2a]
ZL201910188008.8	CND01110034940			
ZL201480018193.1	CN105144655			
IN 366867				
JP6145177			2034	
JP6479092				
KR 10-1879916				
KRD01 10-1949116				
US 9,820,134				
US 10,237,718				
JP 5562425			2030	3GPP TS 23.682 v13.9.0 [4.5.5 - 5.5.1]

Granted Patent No.	Application or Publication No.	Family members	Expiry	Illustrative Standard Coverage
JP 5847067				3GPP TS 23.246 v13.3.0 [4.4.1 - 4.4.3]
EP 2 486 767		DE, ES, FI, FR, GB, NL, SE		3GPP TS 36.331 v13.6.1 [5.8.1.1 - 5.8.2.1 - 6.2.2 - 6.3.7] or [5.8a - 6.2.2 - 6.3.7a]
EP 2 566 263		DE, FI, FR, GB, IT, NL, PL, SE		
	US 13/500,250			
US 9,913,072				
EP 2 656 648		DE, FI, FR, NL, GB, IT, SE	2031	3GPP TS 33.163 [4.5, 4.6.2.2, 5.1.3]
US 10,103,887				
	US 16/133,658			
CN 106465106			2035	3GPP TS 33.401 v13.5.0 [Annex F.1 - F.2 - F4.1 - F.4.2]
	EP 3 138 311			
JP 6708626				
US 10,958,631				
US 10,299,119				
EP 3 352 413		DE, FR, GB, NL	2030	3GPP TS 23.682 v13.11.0 [4.2 - 4.5.5 - 5.5.1]
EP 2 454 846		DE, FI, FR, GB, IT, NL, SE		3GPP TS 23.468 v13.3.0 [5.1.2.2.2 - 5.1.2.3.2]
IN349985				3GPP TS 36.331 v13.6.1 [6.2.2 - 6.3.7]
US 11,051,134				
US 9,300,485				3GPP TS 36.300 v13.12.0 [15.3]
US 9,986,432			2035	3GPP TS 33.401 v13.2.0 [Annex F.1 - F.2 - F4.1 - F.4.2]
	US-2018-0242147-A1			
EP 3 087 770		DE, FR, GB, NL		
	EPD 20176650.8			
	KR 10-2016-0083103			
CN 105830476				
ZL201180066222.8	CN 103329499		2031	
EP 2 647 170		DE, ES, FI, FR, GB, IT, NL, SE		TS 23.228v11.5.0 [4.23, 5.19.2]
IN 358882				
JP 6050240				
	CN108029006			
	EP 3 326 395	DE, ES, FR, GB, IT, NL, PL		
	US 2020-0329353-A1			
US 10,735,925			2036	
	CN355248887			
ZL201380066159.7	CN104838678			
EP 2 932 747		DE, FR, GB, NL		
US 10,779,338				
	US 2020-0374950-A1			
** remanded to first instance IPR				

Granted Patent No.	Application or Publication No.	Family members	Expiry	Illustrative Standard Coverage	Direct/Indirect Infringement
EP 2 250 835		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE	2029	3GPP TS 22.368 v10 [3.1, 3.2, 7.1.1, Annex A]	direct
EP 2 337 403		DE, FI, FR, GB, NL, SE		3GPP TS 23.060 v10 [5.3.6.2.1, .3, .4, 5.3.6.4]	direct
				3GPP TS 24.008 v10 [4.1.1.7, 6.1.3.11, 4.7.3.1.4, 9.4.4.2]	
EP 2 291 033		AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE			
	EP 2 291 032				
EP 2 400 734		DE, FR, GB, NL			
US 9,014,667**					direct
US 9,247,426			2030		direct
US 9,253,637			2030		direct
US 9,781,743					direct
US 10,187,904					
KR 10-1 231 986					direct
JP 5 308 459					direct
JP 5 684 323					direct
JP 5 841 566			2029		direct
JP 5 926 433					direct
CN 101 960 886					
CN 103 139 696					direct
CN 103 139 698					direct
IN 273 372					
	IN201628012050				
	IN201628012051				
	IN201628012052				
	IN201628012053				
JP 4987126			2029	3GPP TS 26.237 V9.11.0 [2013-09] [4.3, 7.1, 4.2.2, 7.1, 8.1, 8.2.3.1, 8.2.3.2, 8.2.4.1, 8.2.4.2, 8.2.4.3, 13.1, 13.2]	
US 8,549,151					
US 9,654,330					
EP 2225866		DE, FI, FR, GB, IT, NL, PL, SE, TR			
EP 3 349 412		DE, FR, GB, IT, NL, PL			
	EPD 19209316.9				
ZL200880121914.6	CN101953136				
ZL201510580059.7	CN105208020				
HK11103945.7					
IN 273904					
EP 2 517 495		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 37.320 v10 [4.1 (#4 #7), 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3, Annex A]	direct
JP 5 536 230				3GPP TS 32.422 v10 [6, 4.1.1.2a, 4.1.5]	direct
US RE48,089				3GPP TS 25.304 v10 [5.7] ; 3GPP TS 25.306 [4.15]	
CN 102 960 015				3GPP TS 32.521 v10 [5.1.5, 5.4.3] ; 3GPP TS 32.522 v10 [4.5.3.1, 4.5.5] .	direct
EP 2 387 844	EP 2387844			3GPP TS 23.228 [U1.0, U1.2]	
	IN 1414/MUMNP/2011			3GPP TS 24.371 V12.6.0 [2017-12][1, 2, 4.1, 5D1, 5D2]	
IN346407					
CN102356623			2030		direct
US 9,667,669					

Granted Patent No.	Application or Publication No.	Family members	Expiry	Illustrative Standard Coverage	Direct/Indirect Infringement
JP 5436577			2030		direct
KR 10-1287322					direct
EP 2 299 649		DE, ES, FI, FR, GB, HU, IT, NL, PL, SE	2030	3GPP TS 23.228 v10 [4.14]	
US 8,601,141				3GPP TS 24.229 v10 [5.3.2.1, 5.3.2.1A, 5.4.3.1, .2, 5.7.1.3A.2 5.10.1, 5.10.3.2, 7.2A.6.1, .3]	
JP 5 237 340					
CN 102 025 723					
EP 2 486 750		DE, ES, FI, FR, GB, NL, PL, SE	2030	3GPP TS 25.484 v10 [4.1]	direct
US 8,660,560				3GPP TS 37.320 v10 [4.1 (#4 #7), 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3, Annex A]	direct
JP 5 600 176				3GPP TS 32.422 v10 [6, 4.1.1.2a, 4.1.5] ; 3GPP TS 25.331 v10 [8.5.63.1, 8.5.63.2, 10.2.16da] ; 3GPP TS 25.304 v10 [5.7] ; 3GPP TS 25.306 [4.15] ; 3GPP TS 32.521 v10 [5.1.5, 5.4.3] ; 3GPP TS 32.522 v10 [4.5.3.1, 4.5.5] .	direct
** remanded to first instance IPR					

Granted Patent No.	Application or Publication No.	Family members	Expiry
EP 1 300 809		DE, ES, FR, GB, IT, NL	2022
EP 1 333 638		DE, FR, GB, NL	2022
US 7,565,612			2024
EP 2 425 647		DE, ES, FI, FR, GB, IT, NL, PL, SE	2029
EP 2 717 604		DE, FR, GB, NL	
EP 2 755 413		DE, FR, GB, NL	
JP 5567119			
JP 5980253			
JP 6080921			
CN102415119			
CN104822146			
IN 306425			
US 9,603,022			2030
	US 15/425,485		
	EP 2 387 844		
	IN 1414/MUMNP/2011		
	IND 201828025776		
CN102356623			2030
US 9,667,669			
JP 5436577			2030
KR 10-1287322			

Granted Patent No.	Application or Publication No.	Family members	Expiry
EP 2 656 585		DE, ES, FR, GB, IT, NL, PL, SE	2031
CN201180068721.0			
IN380165	IN1196/MUMNP/2013		
JP6423764			
JP5850947			
US 10,135,668			
EP 1 333 638		DE, FR, GB, NL	2022
US 7,565,612			2024

Granted Patent No.	Application or Publication No.	Family members	Expiry
EP 2 798 816		DE, ES, FI, FR, GB, IT, NL, PL, SE, TR	2032
EP 3 068 102		FI, FR, GB, HU, IT, NL, SE	
CN 104137505			
HK 15101401.4			
JP 5977838			
	JP2016-219032		
KR-101691709			2032
US 9,723,047			
US 10,516,717			
US 9,392,325			2031
EP 2 279 617		DE, FR, GB, NL	2029

Granted Patent No.	Application or Publication No.	Family members	Expiry
EP 2 151 950		DE, ES, FR, GB, IT, NL, PL, SE	2028
US 8,886,772			
US 9,219,649			2029
US 9,838,256			
CN102075506			
CN104821891			
IN284558			
	IN201722017361 (DIV)		

Granted Patent No.	Application- or Publication No.	Family members	Expiry
EP 1 326 458	DE, ES, FR, GB, IT, SE		2021
US 7,092,705			2022
			2021
US 7,295,666			2022
ZL0314545.7	CN1254048		2023
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