

# W-CDMA Essential Patents for W-CDMA Core Network Products

Essentiality Cross Reference Chart (Other claims may also be essential)

<u>Patent Family#</u> Product Categories*	<u>Patent Rights Holder(s)</u>	<u>Patent Number</u>	Designated Contracting States (EP only)	<u>Expiry Date of Patent or Licensing Right</u>	<u>Title</u>	<u>Essential Claims</u>	<u>3GPP Standard Sections</u>
<b>1</b>							
BS, CN, RNC, T	Siemens	EP 1119925B1	DE, ES, FR, GB, GR, IE, IT, NL, PL	09/10/2019	METHOD AND RADIO COMMUNICATION SYSTEM FOR REGULATING POWER BETWEEN A BASE STATION AND A SUBSCRIBER STATION	1, 9	TS25.212 S4.4, TS25.214 S5
BS, CN, RNC, T	Siemens	JP 4313952		08/10/2019	Method and radio communication system for regulating power between a base station and a subscriber station	1, 9	TS25.212 V4.4.0 Fig 11, TS25.212 V4.4.0 S4.4, TS25.214 V4.3.0 S5.1, TS25.214 V4.3.0 S5.1.2.1, TS25.214 V4.3.0 S5.1.2.2.1, TS25.214 V4.3.0 S5.1.2.3, TS25.214 V4.3.0 Table 1
BS, CN, RNC, T	Siemens	US 6885875		08/10/2019	Method and radio communication system for regulating power between a base station and a subscriber station.	25	TS25.214 V4.3.0 S5.1.2.1, TS25.214 V4.3.0 S5.1.2.2.1, TS25.214 V4.3.0 S5.1.2.3, TS25.214 V4.3.0 Table 1
<b>2</b>							
CN, T	Siemens	EP 1135955B1	DE, FR, GB	01/12/2019	METHOD FOR DATA TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM	1, 10	TR25.922 V3.7.0 S8.1.4, TR25.922 V3.7.0 Table 8-1, TS25.104 V3.12.0 S5.4.1, TS25.211 V3.12.0 S5, TS25.211 V3.12.0 S5.2.1, TS25.211 V3.12.0 S5.3.2, TS25.211 V3.12.0 S5.3.3.4, TS25.211 V3.12.0 S5.3.3.6, TS25.211 V3.12.0 Table 21, TS25.213 V3.8.0 Fig. 4, TS25.213 V3.8.0 S5.2.1, TS25.331 V3.16.0 S10.3.5.20, TS25.331 V3.16.0 S10.3.6.43, TS25.331 V3.16.0 S10.3.6.70, TS25.331 V3.16.0 S8.6.6.10
<b>3</b>							
CN, RNC, T	Mitsubishi	JP 2905155		23/04/2010 (Expired)	Voice coding apparatus used to digitally transmit or store voice	1	TS26.073 ANSI-C_source_code, TS26.073 V3.3.0 Table 1, TS26.090 V3.1.0 S4.3, TS26.090 V3.1.0 S5.2

\* Product Categories: T=Terminals, BS=Base Station, RNC=Radio Network Controller, CN=Core Network

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<b>4</b>							
CN, RNC, T	Siemens	CN 131517		31/05/2020	Method and System for Verifying the Authenticity of a first Communication Participant in a Communications network	1, 5	TS33.102 V4.4.0
BS, CN, RNC, T	Siemens	JP 3924465		31/05/2020	Authenticity verification for communication network subscriber e.g. for mobile radio system	1, 4	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 C.2.2, TS33.102 V4.4.0 Figure 10, TS33.102 V4.4.0 Figure 4, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.2, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.2, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3
BS, CN, RNC, T	Siemens	AU 760714		22/05/2020	Method and system for verifying the authenticity of a first communication participant in a communications network.	1, 5	TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3
BS, CN, RNC, T	Siemens	EP 1186193	DE, ES, FR, GB, IT	31/05/2020	Method and system for verifying the authenticity of a first communication participant in a communications network	1, 5	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.2, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3
BS, CN, RNC, T	Siemens	US 6980796		12/07/2021	Method and system for verifying the authenticity of a first communication participant in a communications network.	1, 7	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 Figure 10, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.2, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3
BS, CN, RNC, T	Siemens	IN 202625		31/05/2020	Method and device for verifying the authenticity of a first communication subscriber in a communications network.	1, 5	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.2, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3
BS, CN, RNC, T	Siemens	EP 1326469	DE, ES, FR, GB, IT	31/05/2020	Method and device for checking the authenticity of service provider in a communications network	1, 9	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 Figure 12, TS33.102 V4.4.0 Figure 5, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.2, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3, TS33.102 V4.4.0 S6.3.5
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BS, CN, RNC, T	Siemens	JP 4272920		31/05/2020	Method and device for checking the authenticity of a first communication participant in a communications network.	1, 10	TS33.102 V4.4.0 Figure 12, TS33.102 V4.4.0 Figure 5, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3, TS33.102 V4.4.0 S6.3.5
BS, CN, RNC, T	Siemens	KR 576956		31/05/2020	Method and device for checking the authenticity of a service provider in a communications network.	1, 11	TS33.102 V4.4.0 C.1.1.1, TS33.102 V4.4.0 Figure 12, TS33.102 V4.4.0 Figure 5, TS33.102 V4.4.0 Figure 7, TS33.102 V4.4.0 Figure 9, TS33.102 V4.4.0 S3.3, TS33.102 V4.4.0 S6.3.1, TS33.102 V4.4.0 S6.3.2, TS33.102 V4.4.0 S6.3.3, TS33.102 V4.4.0 S6.3.5
<b>5</b>							
CN, T	Siemens	JP 2977154		22/08/2017	Method and system to localize a subscriber in a cellular mobile communication network	1, 10	TS23.018 V4.6.0 S8.3.1, TS23.018 V4.6.0 S8.3.2, TS23.079 V4.1.0 S10.3.1, TS23.079 V4.1.0 S4.1, TS23.079 V4.1.0 S5.1
CN, T	Siemens	CN 88486		02/09/2017	Method and System for Determining the Location of a Subscriber Registered in a Mobile Communication Network	1, 10	TS23.018 V4.6.0 S8.3.1, TS23.018 V4.6.0 S8.3.2, TS23.079 V4.1.0 S1, TS23.079 V4.1.0 S10.3.1, TS23.079 V4.1.0 S4.1, TS23.079 V4.1.0 S5.1
CN, T	Siemens	DE 19635581C1		02/09/2016	Method and System for Determining the Location of a Subscriber Registered in a Mobile Communication Network	1, 10	TS23.018 V4.6.0 S8.2.1, TS23.018 V4.6.0 S8.3.1, TS23.018 V4.6.0 S8.3.2, TS23.079 V4.1.0 S1, TS23.079 V4.1.0 S10.3.1, TS23.079 V4.1.0 S4.1, TS23.079 V4.1.0 S5, TS23.079 V4.1.0 S5.1
CN, T	Siemens	US 6035198		02/09/2017	Method and System for Determining the Location of a Subscriber Registered in a Mobile Communication Network	1, 11	TS23.018 V4.6.0 S8, TS23.018 V4.6.0 S8.3.1, TS23.018 V4.6.0 S8.3.2, TS23.079 V4.1.0 S1, TS23.079 V4.1.0 S10, TS23.079 V4.1.0 S10.3.1, TS23.079 V4.1.0 S4.1, TS23.079 V4.1.0 S5, TS23.079 V4.1.0 S5.1
CN, T	Siemens	EP 0827355B1	DE, ES, FR, GB, IT	07/08/2017	Method and system for locating a mobile subscriber registered in a cellular mobile radio network	1, 10	TS23.018 V4.6.0 S8.2.1, TS23.018 V4.6.0 S8.3.1, TS23.018 V4.6.0 S8.3.2, TS23.079 V4.1.0 Fig. 3, TS23.079 V4.1.0 S1, TS23.079 V4.1.0 S10.3.1, TS23.079 V4.1.0 S4.1, TS23.079 V4.1.0 S5, TS23.079 V4.1.0 S5.1
<b>6</b>							
CN, RNC	NTT DoCoMo	JP 2942162		05/01/2015	Method for Mobile Packet Communication	1	TS23.060 V5.0.0, TS23.221 V5.2.0, TS25.323 V5.0.0
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<b>7</b>							
CN, RNC, T	NTT DoCoMo	JP 3323421		19/06/2017	Mobile Communication System for Supporting Multiple Simultaneous Communications on Single Mobile Terminal	11, 18	TS22.135 V5.0.0 S4, TS24.007 V5.1.0 S10.1, TS24.007 V5.1.0 S11.2.3.1.3, TS24.007 V5.1.0 S4.1, TS24.007 V5.1.0 S5, TS24.007 V5.1.0 S5.2, TS24.007 V5.1.0 S6, TS24.007 V5.1.0 S6.2, TS24.007 V5.1.0 S9.1, TS24.008 V5.5.0 S10.5.4.28, TS24.008 V5.5.0 S4.1, TS24.135 V5.0.0 S4.1, TS24.135 V5.0.0 S4.1.1, TS25.331 V5.0.0 S13.4.5, TS25.331 V5.0.0 S13.4.5.8, TS25.331 V5.0.0 S5.1, TS25.331 V5.0.0 S8.5.5, TS25.331 V5.0.0 S8.5.5.1.2, TS25.331 V5.0.0 S8.5.5.4, TS25.413 V5.0.0 S8.3.1, TS25.413 V5.0.0 S8.3.2, TS25.413 V5.0.0 S8.4.1, TS25.413 V5.0.0 S9.1.5, TS25.413 V5.0.0 S9.2.1.2
CN, RNC, T	NTT DoCoMo	US 6314300		20/06/2017	MOBILE COMMUNICATION SYSTEM FOR SUPPORTING MULTIPLE SIMULTANEOUS COMMUNICATIONS ON SINGLE MOBILE TERMINAL	11, 18	TS22.135 V5.0.0 S4, TS24.007 V5.1.0 S10.1, TS24.007 V5.1.0 S11.2.3.1.3, TS24.007 V5.1.0 S4.1, TS24.007 V5.1.0 S5, TS24.007 V5.1.0 S5.2, TS24.007 V5.1.0 S6, TS24.007 V5.1.0 S6.2, TS24.007 V5.1.0 S9.1, TS24.008 V5.5.0 S10.5.4.28, TS24.008 V5.5.0 S4.1, TS24.135 V5.0.0 S4.1, TS24.135 V5.0.0 S4.1.1, TS25.331 V3.10.0 S5.1, TS25.331 V3.10.0 S8.5.5, TS25.331 V3.10.0 S8.5.5.1.2, TS25.331 V3.10.0 S8.5.5.4, TS25.331 V5.0.0 S13.4.5, TS25.413 V5.0.0 S8.3.1, TS25.413 V5.0.0 S8.3.2, TS25.413 V5.0.0 S8.4.1, TS25.413 V5.0.0 S9.1.5, TS25.413 V5.0.0 S9.2.1.2

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CN, RNC, T	NTT DoCoMo	EP 0814626	DE, GB, SE	20/06/2017	Mobile Communication System for Supporting Multiple Simultaneous Communications on Single Mobile Terminal	1	TS23.135 V3.2.0 S4.2.1 Fig 5, TS23.135 V3.2.0 S4.2.1 Fig. 5, TS24.007 V3.10.0 Annex A, TS24.007 V3.10.0 S10.1, TS24.007 V3.10.0 S10.1 Fig. 10.1, TS24.007 V3.10.0 S11.2.3.1.3, TS24.007 V3.10.0 S4.1, TS24.007 V3.10.0 S5.2, TS24.007 V3.10.0 S5.2 Fig. 5.1, TS24.007 V3.10.0 S6, TS24.007 V3.10.0 S6.2, TS24.007 V3.10.0 S7.1, TS24.007 V3.10.0 S7.1.2, TS24.007 V3.10.0 S7.1.2.1, TS24.007 V3.10.0 S9.1, TS24.008 V3.19.0 S10.5.4.28, TS24.008 V3.19.0 S4.1, TS24.008 V3.19.0 S5.1.1, TS24.008 V3.19.0 S5.2.1.9, TS24.135 V3.2.0 S4.1, TS24.135 V3.2.0 S4.1.1, TS25.331 V3.21.0 S10.3.1.14, TS25.331 V3.21.0 S10.3.4.8, TS25.331 V3.21.0 S13.4.5, TS25.331 V3.21.0 S8.5.5, TS25.331 V3.21.0 S8.5.5.1.2, TS25.331 V3.21.0 S8.5.5.4, TS25.413 V3.14.0 S8.3.1, TS25.413 V3.14.0 S8.3.2, TS25.413 V3.14.0 S9.1.5, TS25.413 V3.14.0 S9.2.1.2
<b>8</b>							
BS, CN, RNC, T	Siemens	US 4843612		27/06/2006 (Expired)	Method for jam-resistant communication transmission	1	TS26.093 V4.0.0
<b>9</b>							
CN	Siemens	US 6415151		02/07/2019	Packet data service handling method especially for GSM interworking of packet data service with network functions of intelligent network and interconnecting service switching function with service network node	1, 15	TS22.078 V3.2.0, TS23.078 V3.10.0, TS29.078 V3.10.0
<b>10</b>							
BS, CN, RNC, T	Mitsubishi	JP 2659605		23/04/2010 (Expired)	Voice decoding apparatus and voice coding/decoding apparatus	1, 3	TS26.073 V3.3.0, TS26.090 V3.1.0
<b>11</b>							
BS, CN, RNC, T	Mitsubishi	JP 3483958		28/10/2014	A wideband speech reconstruction method and apparatus which reconstructs speech signals from a band limited narrowband speech narrowband signal or a narrowband speech code that is coded narrowband speech signal	9, 15	TS26.190 V5.1.0
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12							
CN	KPN	EP 421535B1	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE	01/10/2010	Method for transferring, between two switching exchanges for mobile services, the handling of an active connection with a mobile terminal	1	TS23.002 V3.6.0, TS23.002 V4.5.0, TS23.002 V5.8.0, TS23.060 V3.13.0, TS23.060 V4.6.0, TS23.060 V5.3.0
CN	KPN	JP 2535251		19/09/2010	Method for transferring, between two switching exchanges for mobile services, the handling of an active connection with a mobile terminal	1	TS23.002 V3.6.0 S3.1, TS23.002 V3.6.0 S3.12, TS23.002 V3.6.0 S3.5, TS23.002 V3.6.0 S3.9, TS23.002 V3.6.0 S4.1.3, TS23.002 V3.6.0 S4.1.3.1, TS23.002 V3.6.0 S4.2, TS23.002 V3.6.0 S4.2.1, TS23.002 V3.6.0 S4.2.1.2, TS23.002 V3.6.0 S4.3, TS23.002 V3.6.0 S6.3.1, TS23.002 V3.6.0 S6.4.2.2, TS23.002 V3.6.0 S7.2, TS23.060 V3.13.0 S14.7, TS23.060 V3.13.0 S15.1, TS23.060 V3.13.0 S4, TS23.060 V3.13.0 S4.1, TS23.060 V3.13.0 S5.3.4, TS23.060 V3.13.0 S5.4.1, TS23.060 V3.13.0 S5.5 tab. 1, TS23.060 V3.13.0 S5.6.1.1, TS23.060 V3.13.0 S5.6.1.2 Fig. 5, TS23.060 V3.13.0 S6.1.1.3, TS23.060 V3.13.0 S6.8.1, TS23.060 V3.13.0 S6.8.4 Fig. 31, TS23.060 V3.13.0 S6.9.1, TS23.060 V3.13.0 S6.9.1.1, TS23.060 V3.13.0 S6.9.1.2, TS23.060 V3.13.0 S6.9.1.2.2 Fig. 33, TS23.060 V3.13.0 S8.1.3.1., TS23.060 V3.13.0 S9.1.1, TS23.060 V3.13.0 S9.1.2, TS23.060 V3.13.0 S9.2

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<b>13</b>							
CN	NTT DoCoMo	JP 2873405		06/02/2016	Mobile Communication System and Communication Networks	10	TS23.119 V5.0.0, TS23.221 V5.0.0
CN	NTT DoCoMo	EP 0756433	DE, GB, SE	06/02/2016	Mobile Communication System and Communication Network	1, 7	TS23.002 V3.6.0 S3, TS23.002 V3.6.0 S3.8, TS23.002 V3.6.0 S3.9, TS23.012 V3.3.0 S1, TS23.012 V3.3.0 S2, TS23.012 V3.3.0 S2.1, TS23.012 V3.3.0 S2.2, TS23.012 V3.3.0 S3.4, TS23.012 V3.3.0 S3.6, TS23.012 V3.3.0 S3.6.1.2, TS23.012 V3.3.0 S4.1.1.1 Fig. 4.1.1.1 Sh.1/3, TS23.012 V3.3.0 S4.1.2.1 Fig. 4.1.2.1 Sh.1/4, TS23.012 V3.3.0 S4.1.2.1 Fig. 4.1.2.1 Sh.2/4, TS23.012 V3.3.0 S4.1.2.1 Fig. 4.1.2.1 Sh.4/4, TS23.012 V3.3.0 S4.1.2.5 Fig. 4.1.2.5 Sh. 1/1, TS23.012 V3.3.0 S4.1.3.2 Fig. 4.1.3.2 Sh. 1/2, TS23.060 V3.16.0 S13.1 Tab. 5, TS23.060 V3.16.0 S3, TS23.060 V3.16.0 S3.1, TS23.060 V3.16.0 S3.3, TS23.060 V3.16.0 S4, TS23.060 V3.16.0 S5.4 Fig. 2, TS23.060 V3.16.0 S5.4.1, TS23.060 V3.16.0 S6, TS23.060 V3.16.0 S6.1, TS23.060 V3.16.0 S6.9.2.1 Fig. 36, TS23.119 V3.0.0 S4, TS23.119 V3.0.0 S5 Fig. 1, TS23.119 V3.0.0 S5.2 Fig. 5.2/1, TS23.119 V3.0.0 S5.3 Fig. 5.3/1, TS23.119 V3.0.0 S5.4 Fig. 5.4/1, TS23.119 V3.0.0 S5.5 Fig. 5.5/1, TS23.119 V3.0.0 S6, TS23.119 V3.0.0 S6 Fig. 6/1, TS23.119 V3.0.0 S6.1, TS23.119 V3.0.0 S7.2.1.1.1 Fig. 7.2/1, TS23.119 V3.0.0 S7.2.1.1.2 Fig. 7.2/2, TS23.119 V3.0.0 S7.3, TS23.119 V3.0.0 S7.3.1, TS23.119 V3.0.0 S7.3.1.1 Fig. 7.3/1, TS23.119 V3.0.0 S7.3.1.3 Fig. 7.3/3, TS23.119 V3.0.0 S7.3.1.4 Fig. 7.3/4, TS23.119 V3.0.0 S7.3.4 Fig. 7.3/12, TS23.119 V3.0.0 S8.6 Tab. 8.5/1, TS23.121 V3.6.0 S4.3.8.1, TS24.008 V3.19.0 S4.2.2.1, TS24.008 V3.19.0 S4.7.5, TS24.008 V3.19.0 S4.7.5.1
<b>14</b>							
CN	NTT DoCoMo	JP 3291131		15/07/2014	Mobile Communication System	1	TS23.003 V3.13.0 S3, TS23.012 V3.3.0 S2, TS23.012 V3.3.0 S3, TS23.018 V3.12.0 S4, TS23.018 V3.12.0 S5, TS23.018 V3.12.0 S7, TS29.002 V3.18.0 S8
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<b>15</b>							
BS, CN, RNC, T	NEC	CN 99105453.9		07/04/2019	Power control method and system using idle time in mobile communication system	19, 57, 94, 121	TS25.212 V3.11.0, TS25.214 V3.12.0
BS, CN, RNC, T	NEC	JP 3534060		02/11/2018	Mobile communication system, communication control method and base station used in mobile communication system	1, 15, 29	TS25.212 V3.11.0 Fig. 11, TS25.212 V3.11.0 Fig. 13, TS25.212 V3.11.0 Fig. 14, TS25.212 V3.11.0 S4.4, TS25.212 V3.11.0 S4.4.2, TS25.212 V3.11.0 S4.4.3, TS25.212 V3.11.0 S4.4.4, TS25.214 V3.12.0 S3.3, TS25.214 V3.12.0 S5.1.2.2.1, TS25.331 V3.21.0 S8.4.0
BS, CN, RNC, T	NEC	US 7203208		06/04/2019	Mobile communication system, communication control method and, base station and mobile station to be employed in the same	10, 27, 42	TS25.212 V3.11.0 Fig. 11, TS25.212 V3.11.0 Fig. 13, TS25.212 V3.11.0 S3.1, TS25.212 V3.11.0 S3.3, TS25.212 V3.11.0 S4.4, TS25.212 V3.11.0 S4.4.2, TS25.212 V3.11.0 S4.4.3, TS25.214 V3.12.0 S5.1.2.2.1, TS25.215 V3.13.0 S6.1.1.1
<b>16</b>							
BS, CN, RNC, T	NEC	EP 1058471B1	DE, FR	30/05/2020	Mobile Telecommunication System	1, 7	TS25.331 V3.18.0 S8.3.6
<b>17</b>							
BS, CN, RNC, T	Mitsubishi	JP 3560964		28/10/2014	Wideband speech reconstruction apparatus and method reconstructing a wideband speech signal from a narrow band speech code	1, 3	TS26.190 V5.1.0
<b>18</b>							
BS, CN, RNC, T	Mitsubishi	JP 3598111		28/10/2014	Wideband Speech Reconstruction Apparatus, Wideband Speech Reconstruction Method, Speech Transmission System, and Speech Transmission Method	1, 2	TS26.190 V5.1.0 S6, TS45.009 V5 S3, TS45.009 V5 S3.1, TS45.009 V5 S3.1.1, TS45.009 V5 S5
<b>19</b>							
BS, CN, RNC, T	Mitsubishi	JP 3598112		28/10/2014	Wideband Speech Reconstruction Apparatus, Wideband Speech Reconstruction Method, Speech Transmission System, and Speech Transmission Method	1, 2	TS26.190 V5.1.0 S6, TS26.190 V5.1.0 S8, TS45.009 V5 S3, TS45.009 V5 S3.1, TS45.009 V5 S3.1.1, TS45.009 V5 S5
<b>20</b>							
BS, CN, RNC, T	Fujitsu	JP 2084950		09/09/2006 (Expired)	Decoder and coding transmission equipment	1	TS26.090 V3.1.0 S3.1, TS26.090 V3.1.0 S6, TS26.090 V3.1.0 S6.2.1, TS45.009 V5 S2, TS45.009 V5 S3, TS45.009 V5 S3.1.1
* Product Categories: T=Terminals, BS=Base Station, RNC=Radio Network Controller, CN=Core Network							
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<b>21</b>							
CN, T	NTT DoCoMo	JP 3540588		07/01/2018	Mobile Packet Communication Network, Mobile Communication Terminal, and Packet Switching Method	1, 3	TS22.060 V3.5.0 S7, TS22.060 V3.5.0 S7.9, TS23.060 V3.16.0 S13, TS23.060 V3.16.0 S13.2, TS23.060 V3.16.0 S14, TS23.060 V3.16.0 S14.4 Annex A, TS23.060 V3.16.0 S4, TS23.060 V3.16.0 S5, TS23.060 V3.16.0 S5.1, TS23.060 V3.16.0 S5.4, TS23.060 V3.16.0 S5.4.1, TS23.060 V3.16.0 S9, TS23.060 V3.16.0 S9.2, TS23.060 V3.16.0 S9.2.2, TS23.060 V3.16.0 S9.2.2.1, TS29.061 V3.14.0 S11, TS29.061 V3.14.0 S11.2, TS32.200 V4.5.0 S4, TS32.200 V4.5.0 S4.1, TS32.215 V4.8.0 S4.3, TS32.215 V4.8.0 S5, TS32.215 V4.8.0 S5.20, TS32.215 V4.8.0 S5.6
<b>22</b>							
BS, CN, RNC, T	Mitsubishi	JP 3636327		28/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3, TS26.190 V6.0.0 S8 Fig. 3
<b>23</b>							
BS, CN, RNC, T	Siemens	EP 0971553B1	BE, DE, ES, FR	01/07/2019	Handover of a packet data connection in a mobile network	1, 15	TS22.078 V3.2.0 S3, TS23.078 V3.10.0 Fig. 6.1, TS23.078 V3.10.0 Fig. 6.7, TS23.078 V3.10.0 S1, TS23.078 V3.10.0 S3.1, TS23.078 V3.10.0 S6.1.1, TS23.078 V3.10.0 S6.1.2.1, TS23.078 V3.10.0 S6.1.2.2, TS23.078 V3.10.0 S6.4.3, TS23.078 V3.10.0 S6.4.3.1.3, TS23.078 V3.10.0 S6.4.5.2, TS23.078 V3.10.0 S6.5.1, TS23.078 V3.10.0 S6.5.2.4, TS23.078 V3.10.0 S6.5.3.6, TS23.078 V3.10.0 S6.6.1.4.2, TS23.078 V3.10.0 S6.6.3.2.2, TS23.078 V3.10.0 S9.11, TS23.078 V3.10.0 S9.3, TS29.078 V3.10.0 S12.1.7.1.2, TS29.078 V3.10.0 S4.1.1, TS29.078 V3.10.0 S4.1.2, TS29.078 V3.10.0 S5.1
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<b>24</b>							
CN, T	Siemens	EP 0978206B1	ES, FR, GB	17/04/2018	METHOD AND COMMUNICATIONS NETWORK FOR THE ADMINISTRATION OF SUPPLEMENTARY SERVICES	1, 12, 13	TS23.078 V6.5.0 Fig. 4.1, TS23.078 V6.5.0 S1, TS23.078 V6.5.0 S2, TS23.078 V6.5.0 S3.1, TS23.078 V6.5.0 S3.2, TS23.078 V6.5.0 S4.1.1, TS23.078 V6.5.0 S4.4.5, TS23.078 V6.5.0 S5.1.1, TS23.078 V6.5.0 S5.1.2.1, TS23.078 V6.5.0 S5.2.1.1, TS23.078 V6.5.0 S5.4.1, TS23.078 V6.5.0 S5.5.1.3.1, TS23.078 V6.5.0 S5.5.1.3.2, TS23.078 V6.5.0 S5.5.1.4.1, TS23.078 V6.5.0 S5.5.1.4.2, TS23.078 V6.5.0 S5.5.2.3, TS23.078 V6.5.0 S5.5.2.3.1, TS23.078 V6.5.0 S5.5.2.4.1, TS23.090 V6.0.0 S1, TS23.090 V6.0.0 S2, TS23.090 V6.0.0 S6.1, TS23.090 V6.0.0 S6.2.2, TS23.090 V6.0.0 S6.2.3, TS29.002 V6.9.0 Fig. 22.9.5/1, TS29.002 V6.9.0 S1, TS29.002 V6.9.0 S2, TS29.002 V6.9.0 S22.9.2, TS29.002 V6.9.0 S22.9.3, TS29.002 V6.9.0 S22.9.4, TS29.002 V6.9.0 S22.9.5
<b>25</b>							
BS, CN, RNC, T	Fujitsu	JP 3571709		28/10/2014	VOICE ENCODING AND VOICE DECODING APPARATUS	1	TS26.071 V4.0.0 S1, TS26.071 V4.0.0 S4 Fig. 1, TS26.071 V4.0.0 S8, TS26.071 V4.0.0 S9, TS26.092 V4.0.0 S1, TS26.092 V4.0.0 S3.1, TS26.092 V4.0.0 S4, TS26.092 V4.0.0 S5.1, TS26.092 V4.0.0 S6, TS45.009 V4.1.0 S2, TS45.009 V4.1.0 S3.1.1 Fig. 1
<b>26</b>							
BS, CN, RNC, T	Fujitsu	JP 3568255		28/10/2014	VOICE CODING AND VOICE DECODING APPARATUS	7	TS26.071 V4.0.0 Fig. 1, TS26.071 V4.0.0 S1, TS26.071 V4.0.0 S4, TS26.071 V4.0.0 S8, TS26.071 V4.0.0 S9, TS26.090 V4.0.0 S4.3
<b>27</b>							
BS, CN, RNC, T	Fujitsu	JP 3660676		28/10/2014	VOICE ENCODING AND VOICE DECODING APPARATUS	3	TS26.071 V4.0.0 S4 Fig. 1, TS26.071 V4.0.0 S8, TS26.071 V4.0.0 S9, TS26.090 V4.0.0 Fig. 4, TS26.090 V4.0.0 S3.2, TS26.090 V4.0.0 S4.3, TS26.090 V4.0.0 S6, TS26.090 V4.0.0 S6.1, TS26.092 V4.0.0 S5, TS26.092 V4.0.0 S5.1, TS45.009 Foreword, TS45.009 V4.1.0 Fig. 1, TS45.009 V4.1.0 S2, TS45.009 V4.1.0 S3.1.1
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<b>28</b>							
BS, CN, RNC, T	Mitsubishi	JP 3676801		27/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 4	TS26.190 V6.0.0 S4.3, TS26.190 V6.0.0 S4.4 Fig. 3, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3
<b>29</b>							
BS, CN, RNC, T	NEC	JP 3419386		18/05/2020	Paging system and paging method	1, 7	TS25.331 V3.21.0 Annex B, TS25.331 V3.21.0 B.2, TS25.331 V3.21.0 Fig. 8.1.11-1, TS25.331 V3.21.0 Fig. 8.1.2-1, TS25.331 V3.21.0 S7.2, TS25.331 V3.21.0 S7.2.1, TS25.331 V3.21.0 S7.2.2, TS25.331 V3.21.0 S7.2.2.1, TS25.331 V3.21.0 S7.2.2.2, TS25.331 V3.21.0 S7.2.2.3, TS25.331 V3.21.0 S8.1.11, TS25.331 V3.21.0 S8.1.11.1, TS25.331 V3.21.0 S8.1.11.2, TS25.331 V3.21.0 S8.1.2, TS25.331 V3.21.0 S8.1.2.1, TS25.331 V3.21.0 S8.1.2.3, TS25.331 V3.21.0 S8.15.2, TS25.410 V3.8.0 Fig. 4.1, TS25.410 V3.8.0 S4.1, TS25.410 V3.8.0 S4.1.1, TS25.413 V3.14.0 Fig. 16, TS25.413 V3.14.0 S8.15, TS25.413 V3.14.0 S8.15.1, TS25.413 V3.14.0 S8.15.2, TS25.413 V3.14.0 S8.16, TS25.413 V3.14.0 S9.2, TS25.413 V3.14.0 S9.2.1, TS25.413 V3.14.0 S9.2.1.22, TS25.413 V4.14.0 S8.16.1
<b>30</b>							
BS, CN, RNC, T	NEC	JP 3736533		18/05/2020	A paging system, a paging method and base station control equipment using the method	1, 7	TS25.331 V3.21.0 Fig. 8.1.2-1, TS25.331 V3.21.0 S8.1.2, TS25.331 V3.21.0 S8.1.2.1, TS25.331 V3.21.0 S8.1.2.2, TS25.331 V3.21.0 S8.1.2.3, TS25.331 V3.21.0 S8.16.1, TS25.410 V3.8.0 Fig. 4.1, TS25.410 V3.8.0 S4.1.1, TS25.413 V3.14.0 Fig. 16, TS25.413 V3.14.0 S8.15.1, TS25.413 V3.14.0 S8.15.2, TS25.413 V3.14.0 S9.2.1.22
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<b>31</b>							
BS, CN, RNC, T	NEC	JP 3179091		30/10/2010	A handoff method of a mobile communication system and a mobile terminal	2, 5	TS25.104 V3.13.0 S5, TS25.104 V3.13.0 S5.4.3, TS25.104 V3.13.0 Tab. 5.1, TS25.133 V3.22.0 S5, TS25.133 V3.22.0 S5.1.1, TS25.133 V3.22.0 S5.1.2.3, TS25.214 V3.12.0 S4, TS25.214 V3.12.0 S4.3.2, TS25.214 V3.12.0 S4.3.2.1, TS25.301 V3.11.0 Fig. 11, TS25.301 V3.11.0 Fig. 12, TS25.301 V3.11.0 S5, TS25.301 V3.11.0 S5.6, TS25.301 V3.11.0 S5.6.1, TS25.303 V3.12.0 Fig. 25, TS25.303 V3.12.0 Fig. 30, TS25.303 V3.12.0 S6, TS25.303 V3.12.0 S6.4.1, TS25.303 V3.12.0 S6.4.4, TS25.331 V3.21.0 Fig. 14.1.2.3-1, TS25.331 V3.21.0 Fig. 14.1.2.5-1, TS25.331 V3.21.0 Fig. 8.2.2-1, TS25.331 V3.21.0 Fig. 8.3.4-1, TS25.331 V3.21.0 S10, TS25.331 V3.21.0 S10.2.1, TS25.331 V3.21.0 S10.2.33, TS25.331 V3.21.0 S10.3.6.36, TS25.331 V3.21.0 S14, TS25.331 V3.21.0 S14.1.1, TS25.331 V3.21.0 S14.1.2, TS25.331 V3.21.0 S14.1.2.1, TS25.331 V3.21.0 S14.1.2.3, TS25.331 V3.21.0 S14.1.2.3 Eq. 2, TS25.331 V3.21.0 S14.1.2.5, TS25.331 V3.21.0 S14.1.2.5 Eq. 2, TS25.331 V3.21.0 S14.1.4, TS25.331 V3.21.0 S14.1.5, TS25.331 V3.21.0 S8, TS25.331 V3.21.0 S8.2.2, TS25.331 V3.21.0 S8.3.4, TS25.401 V3.10.0 Fig. 17, TS25.401 V3.10.0 Fig. 4, TS25.401 V3.10.0 S11, TS25.401 V3.10.0 S11.2.4, TS25.401 V3.10.0 S6, TS25.401 V3.10.0 S7, TS25.401 V3.10.0 S7.2.4.3, TS25.402 V3.10.0 S8, TS25.402 V3.10.0 S8.2.1, TS25.402 V5.0.0 S8.2.1 with Fig. 15
<b>32</b>							
BS, CN, RNC, T	NEC	EP 0876005	DE, FR, GB	27/02/2012	Cellular mobile communications system using frequencies commonly shared by neighboring cells for handoff operations	1	TS25.104 V3.13.0 S5.4.3, TS25.133 V3.21.0 S5.1.1, TS25.133 V3.21.0 S8.1.1, TS25.133 V3.21.0 S8.1.2, TS25.214 V3.12.0 S4.3.2.1, TS25.301 V3.11.0 S5.6, TS25.301 V3.11.0 S5.6.1, TS25.331 V3.21.0 S10.2.1, TS25.331 V3.21.0 S10.2.33, TS25.331 V3.21.0 S10.3.6.33, TS25.331 V3.21.0 S14.1.1, TS25.331 V3.21.0 S14.1.2, TS25.331 V3.21.0 S14.1.2.5, TS25.331 V3.21.0 S14.1.2.6, TS25.331 V3.21.0 S8.2.2, TS25.331 V3.21.0 S8.3.4, TS25.401 V3.9.0 S7.2.4.3
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<b>33</b>							
BS, CN, RNC, T	Mitsubishi	JP 3746067		06/12/2018	Method and apparatus for speech decoding	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6, TS26.190 V6.0.0 S6.1
<b>34</b>							
BS, CN, RNC, T	Mitsubishi	JP 3748083		27/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.3
<b>35</b>							
BS, CN, RNC, T	Mitsubishi	JP 3736801		06/12/2018	Method and apparatus for speech decoding	1, 3	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S8 Fig. 3
BS, CN, RNC, T	Mitsubishi	EP 1426925	DE, FR, GB, IT, SE	06/12/2018	Method and apparatus for speech decoding	1	TS26.190 V6.0.0 Fig. 3, TS26.190 V6.0.0 S4.3, TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S5.8.1, TS26.190 V6.0.0 S6, TS26.190 V6.0.0 S6.1
BS, CN, RNC, T	Mitsubishi	US 7092885		06/12/2018	Method and apparatus for speech decoding	1, 2	TS26.190 V6.6.0 Fig. 3, TS26.190 V6.6.0 S4.3, TS26.190 V6.6.0 S4.4, TS26.190 V6.6.0 S5.9, TS26.190 V6.6.0 S6.1
<b>36</b>							
BS, CN, RNC, T	Mitsubishi	EP 1420534	DE, FR, GB	10/03/2019	A method and apparatus for assigning codes *With effect 1 July 2010 the effective ownership of this patent has been transferred to Sony Corporation: the patents will continue to be licensed only under Joint License Agreements currently in force until the end of the term of the current license	1	TS25.331 V6.6.0 S10.2.27, TS25.331 V6.6.0 S10.3.3.1, TS25.331 V6.6.0 S10.3.6.21, TS25.331 V6.6.0 S10.3.6.27, TS25.331 V6.6.0 S8.2.2, TS25.331 V6.6.0 S8.2.2.3, TS25.331 V6.6.0 S8.6.3.1, TS25.401 V1.1.1 S7.2.4.5, TS25.401 V3.1.0 S6, TS25.401 V3.1.0 S6.1.3, TS25.401 V3.1.0 S6.1.7, TS25.402 V3.1.0 S5, TS25.402 V3.1.0 S9.4, TS25.433 V3.1.0 S8.3.2.1, TS25.433 V6.5.0 Figure 32, TS25.433 V6.5.0 S8.3.3.1, TS25.433 V6.5.0 S8.3.3.2, TS25.433 V6.5.0 S9.1.42.1, TS25.433 V6.5.0 S9.1.45, TS25.433 V6.5.0 S9.2.2.14, TS25.433 V6.5.0 S9.2.2.14A

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<b>37</b>							
BS, CN, RNC, T	Mitsubishi	EP 1420535	DE, FR, GB	10/03/2019	Mobile station and corresponding method for code switching in a CDMA system *With effect from 1 July 2010, the effective ownership of this patent has been transferred to Sony Corporation: the patents will continue to be licensed only under Joint License Agreements currently in force until the end of the term of the current license.	1	TS25.331 V3.1.0 S10.1.22, TS25.331 V6.6.0 S10.2.27, TS25.331 V6.6.0 S10.3.3.1, TS25.331 V6.6.0 S10.3.6.21, TS25.331 V6.6.0 S10.3.6.27, TS25.331 V6.6.0 S8.2.2, TS25.331 V6.6.0 S8.2.2.3, TS25.331 V6.6.0 S8.3.2.1, TS25.331 V6.6.0 S8.3.3, TS25.331 V6.6.0 S8.6.3.1, TS25.331 V6.6.0 S9.1.42.1, TS25.331 V6.6.0 S9.1.45, TS25.331 V6.6.0 S9.2.2.14A, TS25.401 V3.1.0 S6, TS25.401 V3.1.0 S6.1.7, TS25.401 V3.1.0 S7.2.4.5, TS25.402 V3.1.0 S5, TS25.402 V3.1.0 S9.4
<b>38</b>							
BS, CN, RNC, T	Mitsubishi	JP 3748081		27/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 Fig. 3, TS26.190 V6.0.0 S4, TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3
<b>39</b>							
BS, CN, RNC, T	Mitsubishi	JP 3748082		27/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 Fig. 3, TS26.190 V6.0.0 S4, TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3
<b>40</b>							
BS, CN, RNC, T	NTT	JP 2613503		08/07/2011	Speech excitation signal encoding and decoding methods	1	TS26.090 V6.0.0 S3.1, TS26.090 V6.0.0 S4.3, TS26.090 V6.0.0 S5.6.1, TS26.090 V6.0.0 S5.7.2
BS, CN, RNC, T	NTT	US 5396576		20/05/2012	Speech coding and decoding methods using adaptive and random code books	24	TS26.090 V6.0.0 S3.1, TS26.090 V6.0.0 S3.2, TS26.090 V6.0.0 S5.6.1, TS26.090 V6.0.0 S6.1
<b>41</b>							
BS, CN, RNC, T	NTT	JP 2853824		02/10/2012	Parameter Information Coding method of Speech	1	TS26.090 V3.1.0 S4.3, TS26.090 V3.1.0 S5.2, TS26.090 V3.1.0 S5.2.5, TS26.090 V3.1.0 S6.1
<b>42</b>							
BS, CN, RNC, T	NTT	JP 3085347		07/10/2014	A speech decoding method and apparatus	2	TS26.090 V6.0.0 S4, TS26.090 V6.0.0 S4.3, TS26.090 V6.0.0 S4.4, TS26.090 V6.0.0 S5, TS26.090 V6.0.0 S5.2, TS26.090 V6.0.0 S5.2.5, TS26.090 V6.0.0 S5.2.6, TS26.090 V6.0.0 S6, TS26.090 V6.0.0 S6.1, TS26.091 V6.0.0 S5, TS26.091 V6.0.0 S5.1, TS26.091 V6.0.0 S6, TS26.091 V6.0.0 S6.2.1, TS26.091 V6.0.0 S6.2.2, TS26.091 V6.0.0 S6.2.3
* Product Categories: T=Terminals, BS=Base Station, RNC=Radio Network Controller, CN=Core Network							
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<b>43</b> BS, CN, RNC, T	NTT	JP 3275247		22/05/2011	Speech coding and decoding methods	5	TS26.090 V6.0.0 S3, TS26.090 V6.0.0 S3.1, TS26.090 V6.0.0 S3.2, TS26.090 V6.0.0 S6, TS26.090 V6.0.0 S6.1
<b>44</b> CN	NTT DoCoMo	EP 0750437	DE, FR, GB, IT, SE	28/12/2015	MOBILE TERMINAL LOCATION REGISTRATION IN A MOBILE COMMUNICATION SYSTEM	1, 8	TS23.060 V3.16.0 S13.1, TS23.060 V3.16.0 S13.3, TS23.060 V3.16.0 S14.1, TS23.060 V3.16.0 S4, TS23.060 V3.16.0 S5.3.2.2, TS23.060 V3.16.0 S5.3.2.5, TS23.060 V3.16.0 S5.3.3.2, TS23.060 V3.16.0 S5.4, TS23.060 V3.16.0 S5.4.1, TS23.060 V3.16.0 S6.9.2.1, TS23.060 V3.16.0 S9.2.2.2, TS23.060 V3.16.0 S9.2.2.2.1, TS25.201 V3.4.0 S4.1.1
<b>45</b> BS, CN, RNC, T	Mitsubishi	JP 3770899		28/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4 Fig. 3, TS26.190 V6.0.0 S5.2.3, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3
<b>46</b> BS, CN, RNC, T	Mitsubishi	JP 3770900		28/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S5.3.2, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3 Fig. 3
<b>47</b> BS, CN, RNC, T	Mitsubishi	JP 3770901		28/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S5.2.3, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3 Fig. 3
<b>48</b> CN, RNC, T	NEC	JP 3570508		07/08/2021	Communication system, method thereof, switching center thereof and base station control station thereof	40, 41, 42	TS23.002 V4.8.0 S4.1.3, TS23.002 V4.8.0 S4.2.2.1, TS23.002 V4.8.0 S4.2.2.2, TS23.060 V4.10.0 Fig. 50, TS23.060 V4.10.0 S6.12.1, TS25.413 V4.12.0 S8.2.1, TS25.413 V4.12.0 S8.2.2, TS25.413 V4.12.0 S9.1.3, TS25.413 V4.12.0 S9.2.1.43
<b>49</b> BS, CN, RNC, T	Mitsubishi	JP 3773509		28/10/2014	Wideband Speech Reconstruction Method and Wideband Speech Reconstruction Apparatus	1, 2	TS26.190 V6.0.0 S4.4, TS26.190 V6.0.0 S6.1, TS26.190 V6.0.0 S6.3.1, TS26.190 V6.0.0 S6.3.2.2, TS26.190 V6.0.0 S6.3.3

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<b>50</b>							
CN, T	FT	EP 0749626	DE, FR, GB, IT, NL, SE	04/01/2016	Speech coding method using linear prediction and algebraic code excitation	1	TS26.190 V6.1.1 S1, TS26.190 V6.1.1 S4, TS26.190 V6.1.1 S4.1, TS26.190 V6.1.1 S4.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S4.4, TS26.190 V6.1.1 S5, TS26.190 V6.1.1 S5.2.3, TS26.190 V6.1.1 S5.7, TS26.190 V6.1.1 S5.8, TS26.190 V6.1.1 S5.8.1, TS26.190 V6.1.1 S5.8.1.1, TS26.190 V6.1.1 S5.8.1.2, TS26.190 V6.1.1 S5.8.1.3, TS26.190 V6.1.1 S5.8.1.4, TS26.190 V6.1.1 S5.8.1.5, TS26.190 V6.1.1 S5.8.1.6, TS26.190 V6.1.1 S5.8.1.7, TS26.190 V6.1.1 S5.8.1.8, TS26.190 V6.1.1 S5.8.2, TS26.190 V6.1.1 S5.8.3, TS26.190 V6.1.1 S5.9, TS26.190 V6.1.1 Table 10, TS26.190 V6.1.1 Table 11, TS26.190 V6.1.1 Table 4, TS26.190 V6.1.1 Table 6, TS26.190 V6.1.1 Table 7, TS26.190 V6.1.1 Table 8, TS26.190 V6.1.1 Table 9, TS26.290 V6.3.0 Fig.1, TS26.290 V6.3.0 S3, TS26.290 V6.3.0 S3.1, TS26.290 V6.3.0 S4, TS26.290 V6.3.0 S4.1, TS26.290 V6.3.0 S4.2, TS26.290 V6.3.0 S4.3, TS26.290 V6.3.0 S5.3, TS26.290 V6.3.0 S5.3.3, TS26.290 V6.3.0 S5.3.4.2, TS26.290 V6.3.0 S5.3.4.4, TS26.290 V6.3.0 S5.3.4.5, TS26.290 V6.3.0 S5.3.4.5.1, TS26.290 V6.3.0 S5.3.4.5.2, TS26.290 V6.3.0 S5.3.4.5.3, TS26.290 V6.3.0 S5.3.4.6, TS26.290 V6.3.0 S5.8.2, TS26.290 V6.3.0 S5.8.3, TS26.290 V6.3.0 S5.9
CN, T	FT	JP 3481251		04/01/2016	Speech coding method using linear prediction and algebraic code excitation	1	TS26.190 V6.1.1 S1, TS26.190 V6.1.1 S3, TS26.190 V6.1.1 S3.1, TS26.190 V6.1.1 S3.2, TS26.190 V6.1.1 S4, TS26.190 V6.1.1 S4.1, TS26.190 V6.1.1 S4.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S5.2, TS26.190 V6.1.1 S5.2.3, TS26.190 V6.1.1 S5.3, TS26.190 V6.1.1 S5.5, TS26.190 V6.1.1 S5.7, TS26.190 V6.1.1 S5.8, TS26.190 V6.1.1 S5.8.1, TS26.190 V6.1.1 S5.8.1.1, TS26.190 V6.1.1 S5.8.1.2, TS26.190 V6.1.1 S5.8.1.3, TS26.190 V6.1.1 S5.8.1.4, TS26.190 V6.1.1 S5.8.1.5, TS26.190 V6.1.1 S5.8.1.6, TS26.190 V6.1.1 S5.8.1.7, TS26.190 V6.1.1 S5.8.1.8, TS26.190 V6.1.1 S5.8.3, TS26.190 V6.1.1 S5.9, TS26.190 V6.1.1 Table 4-11

\* Product Categories: T=Terminals, BS=Base Station, RNC=Radio Network Controller, CN=Core Network

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CN, T	FT	US 5717825		04/01/2016	Speech coding method using linear prediction and algebraic code excitation	1	TS26.190 V6.1.1 S1, TS26.190 V6.1.1 S3.1, TS26.190 V6.1.1 S3.2, TS26.190 V6.1.1 S4, TS26.190 V6.1.1 S4.1, TS26.190 V6.1.1 S4.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S5.2, TS26.190 V6.1.1 S5.2.3, TS26.190 V6.1.1 S5.3, TS26.190 V6.1.1 S5.3.8, TS26.190 V6.1.1 S5.5, TS26.190 V6.1.1 S5.6, TS26.190 V6.1.1 S5.7, TS26.190 V6.1.1 S5.8, TS26.190 V6.1.1 S5.8.1.1, TS26.190 V6.1.1 S5.8.1.2, TS26.190 V6.1.1 S5.8.1.3, TS26.190 V6.1.1 S5.8.1.4, TS26.190 V6.1.1 S5.8.1.5, TS26.190 V6.1.1 S5.8.1.6, TS26.190 V6.1.1 S5.8.1.7, TS26.190 V6.1.1 S5.8.1.8, TS26.190 V6.1.1 S5.9
CN, T	FT	KR 10-0389693		04/01/2016	Speech coding method using linear prediction and algebraic code excitation.	1	TS26.190 V6.1.1 S1, TS26.190 V6.1.1 S3.1, TS26.190 V6.1.1 S3.2, TS26.190 V6.1.1 S4, TS26.190 V6.1.1 S4.1, TS26.190 V6.1.1 S4.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S5.2, TS26.190 V6.1.1 S5.2.3, TS26.190 V6.1.1 S5.3, TS26.190 V6.1.1 S5.5, TS26.190 V6.1.1 S5.6, TS26.190 V6.1.1 S5.7, TS26.190 V6.1.1 S5.8.1, TS26.190 V6.1.1 S5.8.1.1, TS26.190 V6.1.1 S5.8.1.2, TS26.190 V6.1.1 S5.8.1.3, TS26.190 V6.1.1 S5.8.1.4, TS26.190 V6.1.1 S5.8.1.5, TS26.190 V6.1.1 S5.8.1.6, TS26.190 V6.1.1 S5.8.1.7, TS26.190 V6.1.1 S5.8.1.8, TS26.190 V6.1.1 S5.8.2, TS26.190 V6.1.1 S5.8.3, TS26.190 V6.1.1 S5.9, TS26.190 V6.1.1 Table 10, TS26.190 V6.1.1 Table 11, TS26.190 V6.1.1 Table 4, TS26.190 V6.1.1 Table 5, TS26.190 V6.1.1 Table 6, TS26.190 V6.1.1 Table 7, TS26.190 V6.1.1 Table 8, TS26.190 V6.1.1 Table 9, TS26.290 V6.3.0 Fig.1, TS26.290 V6.3.0 S1, TS26.290 V6.3.0 S2, TS26.290 V6.3.0 S3.1, TS26.290 V6.3.0 S4.1, TS26.290 V6.3.0 S4.2, TS26.290 V6.3.0 S4.3, TS26.290 V6.3.0 S5.3.2.3, TS26.290 V6.3.0 S5.3.3, TS26.290 V6.3.0 S5.3.4.2, TS26.290 V6.3.0 S5.3.4.3, TS26.290 V6.3.0 S5.3.4.4, TS26.290 V6.3.0 S5.3.4.5, TS26.290 V6.3.0 S5.3.4.5.1, TS26.290 V6.3.0 S5.3.4.5.2, TS26.290 V6.3.0 S5.3.4.5.3, TS26.290 V6.3.0 S5.3.4.6

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CN, T	FT	CA 2182386		04/01/2016	Speech Coding Method Using Linear Prediction and algebraic code excitation	1	TS26.190 V6.1.1 Foreword, TS26.190 V6.1.1 S1, TS26.190 V6.1.1 S3.1, TS26.190 V6.1.1 S3.2, TS26.190 V6.1.1 S4, TS26.190 V6.1.1 S4.1, TS26.190 V6.1.1 S4.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S5.2, TS26.190 V6.1.1 S5.2.3, TS26.190 V6.1.1 S5.3, TS26.190 V6.1.1 S5.5, TS26.190 V6.1.1 S5.6, TS26.190 V6.1.1 S5.7, TS26.190 V6.1.1 S5.8, TS26.190 V6.1.1 S5.8.1, TS26.190 V6.1.1 S5.8.1.1, TS26.190 V6.1.1 S5.8.1.2, TS26.190 V6.1.1 S5.8.1.3, TS26.190 V6.1.1 S5.8.1.4, TS26.190 V6.1.1 S5.8.1.5, TS26.190 V6.1.1 S5.8.1.6, TS26.190 V6.1.1 S5.8.1.7, TS26.190 V6.1.1 S5.8.1.8, TS26.190 V6.1.1 S5.8.2, TS26.190 V6.1.1 S5.8.3, TS26.190 V6.1.1 S5.9, TS26.190 V6.1.1 Table 11, TS26.190 V6.1.1 Table 4, TS26.190 V6.1.1 Table 5
<b>51</b>							
CN, T	FT	EP 0562890B2	AT, BE, CH, DE, ES, FR, GB, IE, IT, LI, LU, NL, SE	29/03/2013	Mobile Communication Network with Remote Updating of Subscriber Identity Modules in Mobile Terminals	1, 5	TS01.02 V6.0.1 S4.3, TS01.02 V6.0.1 S5, TS01.02 V6.0.1 S5.2, TS02.17 V8.0.0 S1, TS02.17 V8.0.0 S6.2, TS11.11 V8.13.0 Annex E, TS11.11 V8.13.0 Annex I, TS11.14 V8.17.0 S3.2, TS11.14 V8.17.0 S7, TS11.14 V8.17.0 S7.1, TS11.14 V8.17.0 S7.1.1, TS11.14 V8.17.0 S7.1.2, TS22.003 V6.0.0 Annex A.1.3.4, TS22.003 V6.0.0 Annex A.1.3.4.2, TS22.038 V3.4.0 S9.1, TS23.040 V3.9.0 Fig 1, TS23.040 V3.9.0 S3.1, TS23.040 V3.9.0 S3.2.3, TS23.040 V3.9.0 S9.2.3, TS23.040 V3.9.0 S9.2.3.22, TS23.040 V3.9.0 S9.2.3.24, TS23.040 V3.9.0 S9.2.3.24.10, TS23.040 V3.9.0 S9.2.3.24.10.1, TS23.040 V3.9.0 S9.2.3.24.10.1.1, TS23.040 V3.9.0 S9.2.3.9
CN, T	FT	HK 1005009	HK	29/03/2013	Mobile communication network with remote updating of subscriber identity modules in mobile terminals.	1, 5	TS11.11 V8.13.0 Annex E, TS11.11 V8.13.0 Annex I, TS11.14 V8.17.0 S3.2, TS11.14 V8.17.0 S7.1.1, TS11.14 V8.17.0 S7.1.2, TS22.003 V6.0.0 Annex A.1.3.4, TS22.038 V3.4.0 S9.1, TS23.040 V3.9.0 S3.1, TS23.040 V3.9.0 S3.2.3, TS23.040 V3.9.0 S9.2.3, TS23.040 V3.9.0 S9.2.3.22, TS23.040 V3.9.0 S9.2.3.24, TS23.040 V3.9.0 S9.2.3.24.10.1, TS23.040 V3.9.0 S9.2.3.24.10.1.1, TS23.040 V3.9.0 S9.2.3.9

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<b>52</b>							
CN, T	FT	EP 0511095	DE, FR, GB, IT, NL	22/04/2012	Coding and decoding method and apparats for a digital signal	1, 4, 7, 12, 14	TS26.403 V6.0.0 Figure 1, TS26.403 V6.0.0 S5, TS26.403 V6.0.0 S5.1, TS26.403 V6.0.0 S5.3, TS26.410 V6.2.0 S1, TS26.410 V6.2.0 S2, TS26.410 V6.2.0 S4, TS26.410 V6.2.0 S4.1, TS26.410 V6.2.0 S4.3.1, TS26.410 V6.2.0 transform.c
CN, T	FT	JP 3147984		24/04/2012	Coding and decoding method and apparatus for a digital signal.	1	TS26.403 V6.0.0 Figure 1, TS26.403 V6.0.0 S5.1, TS26.403 V6.0.0 S5.3, TS26.410 V6.2.0 S1, TS26.410 V6.2.0 S2, TS26.410 V6.2.0 S4.1, TS26.410 V6.2.0 S4.3.1, TS26.410 V6.2.0 Table 4, TS26.410 V6.2.0 Table 7, TS26.410 V6.2.0 transform.c
CN, T	FT	US 5363096		08/11/2011	Coding and decoding method and apparatus for a digital signal.	1	TS26.401 V7.0.0 S2, TS26.401 V7.0.0 S7, TS26.403 V7.0.0 figure 1, TS26.403 V7.0.0 S5.1, TS26.403 V7.0.0 S5.3, TS26.410 V7.0.0 S4.1, TS26.410 V7.0.0 table 4, TS26.410 V7.0.0 transform c
CN, T	FT	CA 2066471		24/04/2012	Coding and decoding method and apparatus for a digital signal	1	TS26.403 V6.0.0 Figure 1, TS26.403 V6.0.0 S5, TS26.403 V6.0.0 S5.1, TS26.403 V6.0.0 S5.3, TS26.410 V6.2.0 S4, TS26.410 V6.2.0 S4.1, TS26.410 V6.2.0 Table 4, TS26.410 V6.2.0 transform.c
<b>53</b>							
BS, CN, RNC, T	Mitsubishi	EP 1596368	DE, FI, FR, GB, IT, SE	06/12/2018	Method and apparatus for speech decoding	1	TS26.090 V6.0.0 Fig 2, TS26.090 V6.0.0 Fig 4, TS26.090 V6.0.0 S3.1, TS26.090 V6.0.0 S4.3, TS26.090 V6.0.0 S4.4, TS26.090 V6.0.0 S5.7.1, TS26.090 V6.0.0 S6.1
<b>54</b>							
CN, T	Mitsubishi	JP 4087823	JP	28/10/2014	Wideband speech reconstruction method and wideband speech	1, 2	TS26.190 V6.1.1 S3.2, TS26.190 V6.1.1 S4.3, TS26.190 V6.1.1 S4.4, TS26.190 V6.1.1 S6.1, TS26.190 V6.1.1 S6.2, TS26.190 V6.1.1 S6.3.2.2, TS26.190 V6.1.1 S6.3.3 Fig. 3
* Product Categories: T=Terminals, BS=Base Station, RNC=Radio Network Controller, CN=Core Network							
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<b>55</b> CN, T	KPN	US 5930250		04/09/2016	Communication system for interactive services with a packet switching interaction channel over a narrow-band circuit switching network, as well as a device for application in such a communication system.	1	TS23.140 V4.10.0 B.1.2, TS23.140 V4.10.0 B.1.3, TS23.140 V4.10.0 Fig 5, TS23.140 V4.10.0 Fig 6, TS23.140 V4.10.0 Fig B.2, TS23.140 V4.10.0 Figure B.3, TS23.140 V4.10.0 S3.1, TS23.140 V4.10.0 S6.1.2, TS23.140 V4.10.0 S6.1.2.1, TS23.140 V4.10.0 S6.1.3, TS23.140 V4.10.0 S7.2, TS23.140 V4.10.0 S7.7, TS23.140 V4.10.0 S8, TS23.140 V4.10.0 S8.1.2.1, TS23.140 V4.10.0 S8.1.3.1, TS23.140 V4.10.0 S8.1.3.4, TS23.140 V4.10.0 Table 8
<b>56</b> CN, T	Mitsubishi	US 7363220		25/03/2019	Method for speech coding, method for speech decoding and their apparatuses	1	TS26.090 V6.0.0 Fig 2, TS26.090 V6.0.0 Fig 4, TS26.090 V6.0.0 S4.3, TS26.090 V6.0.0 S4.4, TS26.090 V6.0.0 S5.7.1, TS26.090 V6.0.0 S6.1, TS26.090 V6.0.0 Table 5, TS26.090 V6.0.0 Table 6, TS26.090 V6.0.0 Table 7, TS26.090 V6.0.0 Table 8
<b>57</b> CN, T	Mitsubishi	US 7383177		07/12/2018	Method for speech coding, method for speech decoding and their apparatuses.	1	TS26.090 V6.0.0 Fig 4, TS26.090 V6.0.0 S3.1, TS26.090 V6.0.0 S4.3, TS26.090 V6.0.0 S4.4, TS26.090 V6.0.0 S6.1
<b>58</b> BS, CN, T	Siemens	JP 3943546		19/10/2021	Multicast method for providing broadcasting services with transmission of multicast and/or broadcasting data via communication node using service specific context stored at latter.	1, 2, 3	TS23.246 V7.1.1 Figure 1, TS23.246 V7.1.1 Figure 2, TS23.246 V7.1.1 Figure 4, TS23.246 V7.1.1 Figure 5a, TS23.246 V7.1.1 Figure 7, TS23.246 V7.1.1 Figure 9, TS23.246 V7.1.1 S4.1, TS23.246 V7.1.1 S4.2, TS23.246 V7.1.1 S4.4.1, TS23.246 V7.1.1 S4.4.1.3, TS23.246 V7.1.1 S4.4.1.6, TS23.246 V7.1.1 S4.4.3, TS23.246 V7.1.1 S4.4.3.1a, TS23.246 V7.1.1 S4.4.3.4, TS23.246 V7.1.1 S5.1, TS23.246 V7.1.1 S5.1.2, TS23.246 V7.1.1 S5.3, TS23.246 V7.1.1 S5.4, TS23.246 V7.1.1 S6.1, TS23.246 V7.1.1 S8.2, TS23.246 V7.1.1 S8.4, TS23.246 V7.1.1 Table 1

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<b>59</b>							
CN, T	Toshiba	JP 3420222		01/04/2014	Gain-shape vector quantization method and its application to the speech coding method and apparatus.	2, 6	TS26.090 V7.0.0 S1, TS26.090 V7.0.0 S3.1, TS26.090 V7.0.0 S3.2, TS26.090 V7.0.0 S4.3, TS26.090 V7.0.0 S4.4, TS26.090 V7.0.0 S5.2.1, TS26.090 V7.0.0 S5.5, TS26.090 V7.0.0 S5.6.1, TS26.090 V7.0.0 S5.7.1, TS26.090 V7.0.0 S5.7.2, TS26.090 V7.0.0 S5.8.2
<b>60</b>							
CN, T	Mitsubishi	JP 3346765		07/12/2018	A speech decoding method and a speech decoding apparatus.	3, 5	TS26.173 V5.4.0 S1, TS26.190 V5.0.0 Figure 3, TS26.190 V5.0.0 S2, TS26.190 V5.0.0 S3.2, TS26.190 V5.0.0 S4.3, TS26.190 V5.0.0 S4.4, TS26.190 V5.0.0 S5.7, TS26.190 V5.0.0 S6, TS26.190 V5.0.0 S6.1
CN, T	Mitsubishi	CN 98812682		07/12/2018	A speech decoding method and a speech decoding apparatus.	1, 2	TS26.173 V5.0.0 S1, TS26.190 V5.0.0 Figure 3, TS26.190 V5.0.0 S2, TS26.190 V5.0.0 S3.2, TS26.190 V5.0.0 S4.3, TS26.190 V5.0.0 S4.4, TS26.190 V5.0.0 S5.7, TS26.190 V5.0.0 S6, TS26.190 V5.0.0 S6.1
CN, T	Mitsubishi	KR 10-0373614		07/12/2018	Sound encoding method and sound decoding method, and sound encoding device and sound decoding device.	16	TS26.173 V5.0.0 S1, TS26.190 V5.0.0 Figure 3, TS26.190 V5.0.0 S2, TS26.190 V5.0.0 S3.2, TS26.190 V5.0.0 S4.3, TS26.190 V5.0.0 S4.4, TS26.190 V5.0.0 S5.7, TS26.190 V5.0.0 S6, TS26.190 V5.0.0 S6.1
<b>61</b>							
CN, T	Siemens	US 7305227		23/04/2022	Cost accounting during data transmission in a mobile radio telephone network	1, 17	TS22.140 V6.7.0 S8, TS23.140 V6.14.0 Fig 3, TS23.140 V6.14.0 Fig 6, TS23.140 V6.14.0 Fig 8, TS23.140 V6.14.0 S1, TS23.140 V6.14.0 S5.6, TS23.140 V6.14.0 S6.1, TS23.140 V6.14.0 S7.1, TS23.140 V6.14.0 S7.1.10, TS23.140 V6.14.0 S8.1.4, TS23.140 V6.14.0 S8.1.4.3, TS23.140 V6.14.0 S8.1.4.4, TS23.140 V6.14.0 S8.7.1, TS23.140 V6.14.0 S8.7.1.3, TS23.140 V6.14.0 S8.7.1.4, TS23.140 V6.14.0 Table 58, TS23.140 V6.14.0 Table 59, TS23.140 V6.14.0 Table 7, TS23.140 V6.14.0 Table 8
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CN, RNC, T	FT	EP 1741264	DE, ES, FR, GB, IT	19/04/2025	Telecommunication system	1	TS23.060 V8.7.0 Figure 63, TS23.060 V8.7.0 Figure 64, TS23.060 V8.7.0 Figure 6a, TS23.060 V8.7.0 figure 6b, TS23.060 V8.7.0 Figure 6c, TS23.060 V8.7.0 Figure 6d, TS23.060 V8.7.0 Figure 7, TS23.060 V8.7.0 Figure 8, TS23.060 V8.7.0 S4, TS23.060 V8.7.0 S5.3.2.4, TS23.060 V8.7.0 S5.3.2.5, TS23.060 V8.7.0 S5.5., TS23.060 V8.7.0 S5.6.2.1, TS23.060 V8.7.0 S5.6.2.2, TS23.060 V8.7.0 S5.6.3, TS23.060 V8.7.0 S5.6.3.1, TS23.060 V8.7.0 S5.6.3.2, TS23.060 V8.7.0 S9.2.1, TS23.060 V8.7.0 S9.2.2.1, TS23.060 V8.7.0 Table 1, TS23.228 V8.9.0 E0, TS23.228 V8.9.0 E5, TS23.228 V8.9.0 Figure 5.5.b, TS23.228 V8.9.0 S4.6.0, TS23.228 V8.9.0 S4.6.1, TS23.228 V8.9.0 S5.4.2a, TS23.401 V8.8.0 Figure 5.1.1.4-1, TS23.401 V8.8.0 Figure 5.1.1.5-1, TS23.401 V8.8.0 Figure 5.1.1.6-1, TS23.401 V8.8.0 Figure 5.1.1.7-1, TS23.401 V8.8.0 Figure 5.1.1.8-1, TS23.401 V8.8.0 Figure 5.1.2.1-1, TS23.401 V8.8.0 Figure 5.1.2.2-1, TS23.401 V8.8.0 Figure 5.1.2.3-1, TS23.401 V8.8.0 Figure 5.1.2.4-1, TS23.401 V8.8.0 Figure 5.1.2.5-1, TS23.401 V8.8.0 S5.1, TS23.401 V8.8.0 S5.1.1.1, TS23.401 V8.8.0 S5.1.1.4, TS23.401 V8.8.0 S5.1.1.5, TS23.401 V8.8.0 S5.1.1.6, TS23.401 V8.8.0 S5.1.1.7, TS23.401 V8.8.0 S5.1.1.8, TS23.401 V8.8.0 S5.1.2.1, TS23.401 V8.8.0 S5.1.2.2, TS23.401 V8.8.0 S5.1.2.3, TS23.401 V8.8.0 S5.1.2.4, TS23.401 V8.8.0 S5.1.2.5, TS23.402 V8.8.0 A.1, TS23.402 V8.8.0 A.2, TS23.402 V8.8.0 Annex A, TS23.402 V8.8.0 Figure 4.2.2-2, TS23.402 V8.8.0 Figure 5.1.3.1-1, TS23.402 V8.8.0 Figure 5.1.4.2-1, TS23.402 V8.8.0 Figure 5.1.4.3-1, TS23.402 V8.8.0 Figure 5.1.4.4-1, TS23.402 V8.8.0 Figure 5.1.4-1, TS23.402 V8.8.0 Figure 6.1.2-1, TS23.402 V8.8.0 Figure A.1-1, TS23.402 V8.8.0 Figure A.1-2, TS23.402 V8.8.0 Figure A.1-3, TS23.402 V8.8.0 Figure A.2-1, TS23.402 V8.8.0 S1, TS23.402 V8.8.0 S4.2.2, TS23.402 V8.8.0 S4.3.3.2, TS23.402 V8.8.0 S4.3.3.3, TS23.402 V8.8.0 S4.3.4, TS23.402 V8.8.0 S5.1.2, TS23.402 V8.8.0 S5.1.3.1, TS23.402 V8.8.0 S5.1.4.1, TS23.402 V8.8.0 S5.1.4.2, TS23.402 V8.8.0 S5.1.4.3, TS23.402 V8.8.0 S5.1.4.4, TS23.402 V8.8.0 S6.1.2, TS29.060 V8.11.0 Figure 1, TS29.060 V8.11.0 S3.1, TS29.060 V8.11.0

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							S4.1

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