# CPC COOPERATIVE PATENT CLASSIFICATION

## H ELECTRICITY

(NOTE omitted)

## H04 ELECTRIC COMMUNICATION TECHNIQUE

(NOTE omitted)

# **H04M TELEPHONIC COMMUNICATION** (circuits for controlling other apparatus <u>via</u> a telephone cable and not involving telephone switching apparatus <u>G08</u>)

### **NOTES**

- 1. This subclass covers:
  - substation equipment;
  - · telephonic communication systems combined with other electrical systems;
  - testing arrangements peculiar to telephonic communication systems.
- 2. In this subclass, the following terms or expressions are used with the meanings indicated:
  - "subscriber" is a general term for terminal equipment, e.g. fixed, wireless, mobile or cellular phones, or for a user of terminal equipment;
  - "substation" means a subscriber or monitoring equipment which may connect a single subscriber to a line without choice as to subscriber;
  - "satellite" is a type of exchange the operation of which depends upon control signals received from a supervisory exchange;
  - "switching centres" include exchanges and satellites.

#### **WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

H04M 7/02	covered by	H04Q 3/00
H04M 7/04	covered by	H04Q 3/00
H04M 7/10	covered by	H04Q 3/00
H04M 15/02	covered by	H04M 15/888

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Substation equipment, e.g. for use by subscribers (subscriber services or facilities provided at exchanges <u>H04M 3/00</u> ; prepayment telephone coin boxes <u>H04M 17/00</u> ; current supply arrangements <u>H04M 19/08</u> )	1/0214 .	Foldable telephones, i.e. with body parts pivoting to an open position around an axis parallel to the plane they define in closed position (combined with translation movement <u>H04M 1/0235</u> )}
1/003	• {Telephone sets using electrooptical means in the transmission path}	1/0216	Foldable in one direction, i.e. using a one degree of freedom hinge
1/006 1/02	<ul><li>{Call diverting means}</li><li>Constructional features of telephone sets</li></ul>	1/0218	The hinge comprising input and/or output user interface means}
1/0202	• • {Portable telephone sets, e.g. cordless phones, mobile phones or bar type handsets	1/022	The hinge comprising two parallel pivoting axes
	(constructional features of telephone transmitters or receivers, e.g. of speakers or microphones	1/0222	Foldable in two directions, i.e. using a two degree of freedom hinge}
1/0206	<ul> <li>H04M 1/03)}</li> <li>• {Portable telephones comprising a plurality of mechanically joined movable body parts, e.g. hinged housings}</li> <li>• • {characterized by the relative motions of the</li> </ul>	1/0225 .	• • • • • {Rotatable telephones, i.e. the body parts pivoting to an open position around an axis perpendicular to the plane they define in closed position (combined with translation movement H04M 1/0235)}
1/021	body parts } {using combined folding and rotation	1/0227	Rotatable in one plane, i.e. using a one degree of freedom hinge}
1/021	motions (combined with translation movement <u>H04M 1/0235</u> )}	1/0229	The hinge comprising input and/or output user interface means}
1/0212	{ with a two degrees of freedom mechanism, i.e. folding around a first axis and rotating around a second axis perpendicular to the first}		<ul><li> {Including a rotatable keypad body part}</li><li> {Including a rotatable display body part}</li></ul>

1/0225		1 /0255	
1/0235	{Slidable or telescopic telephones, i.e.	1/0277	• • • • {for a printed circuit board assembly}
	with a relative translation movement	1/0279	• • • {Improving the user comfort or ergonomics}
	of the body parts; Telephones using a	1/0281	• • • { for providing single handed use or left/right
	combination of translation and other		hand conversion}
1 /0225	relative motions of the body parts}	1/0283	• • • • { for providing a decorative aspect, e.g.
1/0237	{Sliding mechanism with one degree of		customization of casings, exchangeable
	freedom}		faceplate}
1/0239	• • • • • {Sliding mechanism with two degree of	1/0285	• • • {Pen-type handsets}
	freedom, e.g. translation in two different	1/0287	• • {being disposable or recyclable}
	directions}	1/0289	• • {Telephone sets for operators}
1/0241	• • • {using relative motion of the body parts	1/0291	• • {Door telephones}
	to change the operational status of the	1/0293	• • {Terminal boxes for telephone sets}
	telephone set, e.g. switching on/off,	1/0295	• • {Mechanical mounting details of display
	answering incoming call}	-, -, -, -	modules}
1/0243	• • • • {using the relative angle between	1/0297	{Telephone sets adapted to be mounted on a desk
	housings}	-, -, -,	or on a wall}
1/0245	• • • • {using open/close detection}	1/03	Constructional features of telephone transmitters
1/0247	• • • {comprising more than two body parts}	1703	or receivers, e.g. telephone hand-sets
1/0249	{Details of the mechanical connection between	1/035	• • • {Improving the acoustic characteristics
	the housing parts or relating to the method of	1/033	by means of constructional features of the
	assembly}		housing, e.g. ribs, walls, resonating chambers
1/0252	• • • {by means of a snap-on mechanism}		or cavities}
1/0254	• • • {comprising one or a plurality of mechanically	1/04	Supports for telephone transmitters or receivers
	detachable modules}	1/04	supports for telephone transmitters of receivers     specially adapted for use on head, throat or
1/0256	• • • { wherein the modules are operable in the	1/03	breast
	detached state, e.g. one module for the user	1/06	Hooks; Cradles
	interface and one module for the transceiver}		
1/0258	• • • { for a headset device }	1/08	associated with switches operated by the weight of the receiver or hand-set
1/026	{Details of the structure or mounting of	1/10	
	specific components}	1/10	associated with switches operated by
1/0262	{for a battery compartment}		magnetic effect due to proximity of receiver
1/0264	{for a camera module assembly}	1 /1 1	or hand-set
1/0266	• • • {for a display module assembly}	1/11	Supports for sets, e.g. incorporating armrests
1/0268	• • • {including a flexible display panel}	1/12	Adjustable supports, e.g. extensible
1/0200		1/13	pantographic
	<u>WARNING</u>	1/14	with resilient means to eliminate extraneous
	Group H04M 1/0268 is impacted		vibrations
	by reclassification into group	1/15	Protecting or guiding telephone cords
	H04M 1/0269.	1/17	Hygienic or sanitary devices on telephone
	Groups H04M 1/0268 and		equipment (for mouthpieces or earpieces
	H04M 1/0269 should be considered in		<u>H04R 1/12</u> )
	order to perform a complete search.	1/18	<ul> <li>Telephone sets specially adapted for use in</li> </ul>
	order to perform a complete seator.		ships, mines, or other places exposed to adverse
1/0269	{mounted in a fixed curved		environment ( <u>H04M 1/19</u> takes precedence)
	configuration, e.g. display curved	1/185	• • • {Improving the rigidity of the casing or
	around the edges of the telephone		resistance to shocks}
	housing}	1/19	· Arrangements of transmitters, receivers, or
	WARNING .		complete sets to prevent eavesdropping, to
			attenuate local noise or to prevent undesired
	Group H04M 1/0269 is incomplete		transmission; Mouthpieces or receivers specially
	pending reclassification		adapted therefor (circuit arrangements for
	of documents from group		preventing eavesdropping <u>H04M 1/68</u> ; telephone
	<u>H04M 1/0268</u> .		cabinets <u>E04H 1/14</u> )
	Groups <u>H04M 1/0268</u> and	1/20	Arrangements for preventing acoustic feed-back
	H04M 1/0269 should be considered		( <u>H04M 1/62</u> takes precedence)
	in order to perform a complete	1/21	• Combinations with auxiliary equipment, e.g. with
	search.		clocks or memoranda pads
1/027	(including magnifying magna)	1/215	• • • by non-intrusive coupling means, e.g. acoustic
1/027	{including magnifying means}		couplers
1/0272	• • • • { for a projector or beamer module assembly	1/2155	• • • {Acoustic coupling}
	(constructional features of projectors <u>per</u>	1/22	Illumination; Arrangements for improving the
	se G03B 21/00; constructional details of		visibility of characters on dials
	projectors using electronic spatial light modulators per se H04N 9/31)}	1/23	Construction or mounting of dials or of equivalent
1/0274			devices; Means for facilitating the use thereof (by
1/0274	{for an electrical connector module}		improving visibility <u>H04M 1/22</u> )

1/233	<ul> <li> {including a pointing device, e.g. roller key, track ball, rocker switch or joystick (constructional details of pointing devices per</li> </ul>	1/27457 Management thereof, e.g. manual editing of data 1/2746 Sorting, e.g. according to history or
	se G06F 3/033)}	frequency of use
1/236 1/24 1/247	<ul> <li>• (including keys on side or rear faces)</li> <li>• Arrangements for testing</li> <li>• Telephone sets including user guidance or feature</li> </ul>	1/27463 • • • • {Predictive input, predictive dialling by comparing the dialled sequence with the content of a telephone directory}
1/24/	selection means facilitating their use (user interfaces	1/27467 Methods of retrieving data
	specially adapted for cordless or mobile telephones	1/2747 Scrolling on a display
1/2471	<ul><li><u>H04M 1/724</u>)</li><li>• {Configurable and interactive telephone terminals</li></ul>	1/27475 using interactive graphical means or pictorial representations
	with subscriber controlled features modifications,	1/2748 by matching character strings
	e.g. with ADSI capability [Analog Display	1/27485 Appending a prefix to or inserting a pause
	Services Interface] (systems providing special	into a dialling sequence
	services or facilities to subscribers <u>H04M 3/42</u> ; administration or customization of services	1/2749 Automatic dialling or redialling systems,
	H04M 3/42136; by downloading data to	e.g. on off-hook or redial on busy
	substation equipment H04M 3/42178)}	1/27495 implemented by means of discrete
1/2472	• • {with programmable function keys}	electronic components, i.e. neither
1/2473	• • {Telephone terminals interfacing a personal computer, e.g. using an API (Application	programmable nor microprocessor- controlled ( <u>H04M 1/27457-H04M 1/2749</u> take precedence)
	Programming Interface) (details of API	1/275 implemented by means of portable
1/2474	<ul><li>H04M 7/0021)}</li><li>• {Telephone terminals specially adapted for</li></ul>	electronic directories
1/2./.	disabled people (user interfaces for cordless or	1/2753 providing data content
	mobile telephones specially adapted for disabled	1/2755 by optical scanning
	users H04M 1/72475; network based special	1/2757 by data transmission, e.g. downloading
	services or facilities for hearing-impaired persons	1/276 using magnetic recording, e.g. on tape
	<u>H04M 3/42391</u> ; devices for conversing with the deaf-blind <u>G09B 21/04</u> )}	1/2765 {implemented by means of portable magnetic cards}
1/2475	• • { for a hearing impaired user }	1/278 using punched cards or tapes
1/2476	• • • { for a visually impaired user (illuminating	1/30 . Devices which can set up and transmit only one
	or arrangements for improving visibility of	digit at a time
	characters on dials <u>H04M 1/22</u> )}	1/31 by interrupting current to generate trains of
1/2477	• • {for selecting a function from a menu display (H04M 1/2474 takes precedence)}	pulses; by periodically opening and closing contacts to generate trains of pulses
1/2478	Telephone terminals specially adapted for	1/312 {pulses produced by electronic circuits}
1/21/0	non-voice services, e.g. email, internet access	1/315 Clutches; Spring assemblies; Speed
	(centralized arrangements where telephones	regulators, e.g. centrifugal brakes
	services are combined H04M 7/0024; for	$(\underline{\text{H04M 1/32}} - \underline{\text{H04M 1/40}} \text{ take precedence})$
	recording text messages H04M 3/5322; for	1/32 Locking setting devices during transmission
	accessing Internet H04M 3/4938)	to prevent interference by user
1/253	<ul> <li>Telephone sets using digital voice transmission</li> </ul>	1/34 Lost-motion or other arrangements for
1/2535	• • {adapted for voice communication over an	ensuring a pause between successive digit
	Internet Protocol [IP] network (Voice over	transmissions
	Internet Protocol (VoIP) network equipment	1/38 Pulses transmitted by a movement variably
	and services <u>H04M 7/006</u> ; implementation	limited by the setting of a stop
	or adaptation of Internet protocol [IP], of transmission control protocol [TCP] or of user	1/40 wherein the setting-operation short-circuits or open-circuits the transmitting mechanism
	datagram protocol [UDP] <u>H04L 69/16</u> )}	during a variable part of a cycle
1/26	• Devices for calling a subscriber (H04M 1/66 takes	1/50 by generating or selecting currents of
1/20	precedence)	predetermined frequencies or combinations of
1/27	Devices whereby a plurality of signals may be	frequencies
	stored simultaneously	1/505 {signals generated in digital form}
1/271	• • {controlled by voice recognition}	1/515 by generating or selecting signals other than trains
1/272	with provision for storing only one subscriber	of pulses of similar shape, or signals other than
	number at a time, e.g. by keyboard or dial	currents of one or more different frequencies, e.g.
1/2725	• • • {using electronic memories}	generation of dc signals of alternating polarity,
1/274	with provision for storing more than one	coded pulses or impedance dialling
	subscriber number at a time {, e.g. using	1/52 . Arrangements wherein a dial or the like is
	toothed disc}	mechanically coupled to a line selector
1/2745	• • • using static electronic memories, e.g. chips	1/53 Generation of additional signals, e.g. additional
1/27453	Directories allowing storage of additional	pulses
	subscriber data, e.g. metadata	

1/54	Arrangements wherein a dial or the like	1/654 • • • Telephone line monitoring circuits therefor,
	generates identifying signals, e.g. in party-line	e.g. ring detectors
1/56	systems	1/6545 {mechanically actuating hook switch, e.g.
1/56	Arrangements for indicating or recording the called  number at the calling subscriber's set.	lifting handset}
1/57	number at the calling subscriber's set  Arrangements for indicating or recording the	1/656 for recording conversations
1/57	number of the calling subscriber at the called	1/658 Means for redirecting recorded messages to other extensions or equipment
	subscriber's set (at the operator set in a manual	1/66 • with means for preventing unauthorised or
	exchange H04M 5/20)	fraudulent calling (verifying user identity or
1/571	Blocking transmission of caller identification to	authority in secret or secure digital communications
	called party}	H04L 9/32)
1/573	{Line monitoring circuits for detecting caller	1/663 • Preventing unauthorised calls to a telephone set
	identification}	1/665 by checking the validity of a code
1/575	• • {Means for retrieving and displaying personal	1/667 . Preventing unauthorised calls from a telephone
	data about calling party}	set ( <u>H04M 1/677</u> takes precedence)
1/576	• • • {associated with a pictorial or graphical	1/67 by electronic means
	representation}	1/673 the user being required to key in a code
1/578	• • • {associated with a synthesized vocal	1/675 the user being required to insert a coded
	announcement}	card, e.g. a smart card carrying an integrated
1/58	Anti-side-tone circuits	circuit chip
1/585	• • {implemented without inductive element}	1/677 • Preventing the dialling or sending of
1/60	• including speech amplifiers	predetermined telephone numbers or selected
1/6008	• • {in the transmitter circuit}	types of telephone numbers, e.g. long distance
1/6016	• • {in the receiver circuit}	numbers
1/6025	• • {implemented as integrated speech networks}	1/6775 {by providing access to preprogrammed keys}
1/6033	• • {for providing handsfree use or a loudspeaker	1/68 • Circuit arrangements for preventing eavesdropping
	mode in telephone sets (arrangements for preventing acoustic echo <u>H04M 9/08</u> )}	1/70 • Lock-out or secrecy arrangements in party-line
1/6041	• • {Portable telephones adapted for handsfree	systems 1/71 • Substation extension arrangements
1/0041	use}	1/715 • Substation extension arrangements  1/715 • using two or more extensions per line (cordless
1/605	• • • {involving control of the receiver volume to	telephones <u>H04M 1/725</u> )
1,005	provide a dual operational mode at close or	1/72 • Mobile telephones; Cordless telephones, i.e. devices
	far distance from the user	for establishing wireless links to base stations
1/6058	{involving the use of a headset accessory	without route selection
	device connected to the portable telephone}	1/724 User interfaces specially adapted for cordless or
1/6066	• • • • {including a wireless connection}	mobile telephones
1/6075	• • • {adapted for handsfree use in a vehicle	1/72403 with means for local support of applications
	( <u>H04M 1/6058</u> takes precedence;	that increase the functionality
	arrangements for holding telephones in a	1/72406 by software upgrading or downloading
1/6002	vehicle <u>B60R 11/0241</u> )}	1/72409 by interfacing with external accessories
1/6083	• • • • {by interfacing with the vehicle audio	(hands-free <u>H04M 1/60</u> )
1/6001	system)	<u>WARNING</u>
1/6091	<ul><li> {including a wireless interface}</li><li>. Constructional arrangements</li></ul>	Group H04M 1/72409 is impacted
1/62 1/64	Constructional arrangements     Automatic arrangements for answering calls;	by reclassification into groups
1/04	Automatic arrangements for recording messages	H04M 1/724092, H04M 1/724094,
	for absent subscribers; Arrangements for recording	H04M 1/724095, H04M 1/724097 and
	conversations (centralised dictation systems	<u>H04M 1/724098</u> .
	<u>H04M 11/10</u> )	All groups listed in this Warning should
1/642	• • {storing speech in digital form}	be considered in order to perform a
1/645	• • • {with speech synthesis}	complete search.
1/647	• • {using magnetic tape ( <u>H04M 1/642</u> takes	1/724092 {Interfacing with an external cover
	precedence)}	providing additional functionalities}
1/65	Recording arrangements {for recording a	
	message from the calling party (in the exchange	WARNING
1/2505	<u>H04M 3/50</u> )}	Group H04M 1/724092 is incomplete
1/6505	• • { storing speech in digital form}	pending reclassification of documents
1/651	• • • { with speech synthesis }	from group <u>H04M 1/72409</u> .
1/6515	• • {using magnetic tape ( <u>H04M 1/6505</u> takes	Groups <u>H04M 1/72409</u> and
1/652	precedence)}	H04M 1/724092 should be considered
1/652	<ul> <li>Means for playing back the recorded messages by remote control over a telephone line</li> </ul>	in order to perform a complete search.
	(H04M 1/658 takes precedence)	
	(	

Interfacing with a device worn on the user's body to provide access to telephonic functionalities, e.g. accepting a call, reading or composing a message)
functionalities, e.g. accepting a call, reading or composing a message}  WARNING  Groups H04M 1/724094, H09M 1/724095 and H09M 1/724097 are incomplete pending reclassification of documents from group H04M 1/72463 and H09M 1/72463 are incomplete search.  1724095 (Worn on the wrist, hand or arm) 1724097 (Worn on the head) 1724098 (Interfacing with an on-board device of a vehicle H09M 1/6075)  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72469 and H09M 1/72463 are incomplete pending reclassification of documents from group H04M 1/72409 and H09M 1/72469 and H09M 1/72469 and H09M 1/72469 should be considered in order to perform a complete search.  172412 using two-way short-range wireless interfaces 172418 for supporting emergency service functions of emergency service functions express functions expressed functions defined by the mode or the status of the device of the device of the status
Treading or composing a message   WARNING   Groups H04M 1/724094, H04M 1/724095 and H04M 1/724097 are incomplete pending reclassification of documents from group H04M 1/72409. All groups listed in this Warning should be considered in order to perform a complete search.   Treative to the search of a vehicle (for hands-free speaking in vehicles H04M 1/724098   (Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 is incomplete be flowed in order to perform a complete search.   Treative to the search of
WARNING  Groups H04M 1/724094, H04M 1/724095 and H04M 1/724097 are incomplete pending reclassification of documents from group H04M 1/724094 All groups listed in this Warning should be considered in order to perform a complete search.  1/724095 . {Worn on the wrist, hand or arm} 1/724097 . {Worn on the head} 1/724098 [Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces for received functional bocked states or applications remain accessible in the locked strates or applications remain acce
Groups H04M 1/724094 H04M 1/724095 and H04M 1/724097 are incomplete pending reclassification of documents from group H04M 1/72409. All groups listed in his Warning should be considered in order to perform a complete search.  1/724095 (Worn on the wrist, hand or arm) 1/724098 (Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/6075))  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 in order to perform a complete search.  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409 and H04M 1/72409 are incomplete search.  1/72412 using two-way short-range wireless interfaces 1/72418 for supporting games or graphical animations interfaces 1/72419 with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72424 with interactive means for internal management of messages 1/7243 with interactive means for internal management of messages 1/7243 (for voice messaging, e.g., dictaphones (for answering incoming calls H04M 1/64) and H04M 1/72409 are incomplete search. 1/7243 (for transporting games or graphical animations 1/7243 (for transporting games or graphical anima
HO4M 1/724095 and HO4M 1/724091 are incomplete pending reclassification of documents from group HO4M 1/72409.  All groups listed in this Warning should be considered in order to perform a complete search.  1/724095
are incomplete pending reclassification of documents from group H04M 1/72409.  All groups listed in this Warning should be considered in order to perform a complete search.  1/724095 . {Worn on the wrist, hand or arm} 1/724098 . {Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/675)}  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409 and H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409 and H04M 1/72409 should be considered in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces interfaces interfaces interfaces interfaces interfaces interfaces 1/72418 for supporting emergency services 1/72412 with automatic activation of emergency service functions, e.g. upon sensing an alarm alarm 1/72424 with interactive means for internal management of messages 1/72443 with interactive means for internal management of messages 1/7243 for rowice messaging, e.g. dictaphones (for answering incoming calls H04M 1/72409 incoming communication events search). 1/72475 and H04M 1/72409 incoming communication events 1/72481 for return of the device interfaces 1/72442 with automatic activation of emergency service functions of one mergency service functions are interfaces 1/72442 with interactive means for internal management of messages 1/72473 with interactive means for internal management of messages 1/72481 for return easing in e.g. short messaging e.g. short messaging e.g. short messaging 1/7250 with one base station connected to a single line 1/72409 in order to perform a complete search. 1/72508 in using a control channel 1/72508 in using a contr
of documents from group H04M 1/72409. All groups listed in this Warning should be considered in order to perform a complete search.  1/724095 (Worn on the wrist, hand or arm) 1/724098 (Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/6075))  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces 1/72415 for remote control of appliances 1/72416 with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72421 with automatic activation of emergency service functions 1/72424 with manual activation of emergency service functions 1/7243 with interactive means for internal management of messages 1/7243 with interactive means for internal management of messages 1/7243 for text messaging, e.g. short messaging services [SMS] or e-mails 1/72439 for image or video messaging 1/72440 for leaving music files 1/72441 for leaving music files 1/72442 for leaving music files 1/72430 for image or video messaging 1/72442 for leaving music files 1/72443 for leaving music files 1/72444 for leaving music files 1/7245 sain and station connected to a single line 1/7246 for image or video messaging 1/7247 for leaving music files 1/7248 for interface specially adapted for fisabled users 1/7248 wherein functions are triggered by incoming communication covents 1/7248 wherein functions are triggered by incoming communication covents 1/7248 wherein functions are triggered by incoming communication covents 1/7249 for leaving music files 1/7250 with one base station connected to a single line 1/7250 with one base station connected to a single line 1/7250 using a control channel
H04M 1/72409. All groups listed in this Warning should be considered in order to perform a complete search.  1/724095 (Worn on the wrist, hand or arm) 1/724097 (Worn on the head) 1/724098 . [Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098.  Groups H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409. Groups H04M 1/72409 and H04M 1/72409 and H04M 1/72409 should be considered in order to perform a complete search.  1/72412 . using two-way short-range wireless interfaces interfaces interfaces 1/72418 for supporting emergency services 1/72418 . with annual activation of emergency service functions, e.g. upon sensing an alarm 1/72427 . with automatic activation of emergency service functions (e.g. upon sensing an alarm 1/72427 and with interactive means for internal management of messages 1/72433 . for vioice messaging e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72439 . for text messaging e.g. short messaging services [SMS] or e-mails 1/72442 . for playing music files 1/72502 . with one base station connected to a single line 1/72508 . using a control channel
All groups listed in this Warning should be considered in order to perform a complete search.  1/724095 {Worn on the wrist, hand or arm} 1/724097 (Worn on the head} 1/724098 {Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/6075)}  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724098.  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409.  Group H04M 1/72409 and H04M 1/7240 and H04M 1/
interface, e.g. locking a touch-screen or a keypad)  1/724095 .
complete search.  1/724095 . {Worn on the wrist, hand or arm} 1/724097 . {Worn on the head} 1/724098 . {Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/6075)}  WARNING  Group H04M 1/72408 is incomplete pending reclassification of documents from group H04M 1/72463.  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409 and H04M 1/72409 and H04M 1/72409 and H04M 1/72409 and H04M 1/72409 should be considered in order to perform a complete search.  1/72412
1/724095   {Worn on the wrist, hand or arm}   1/724097   {Worn on the head}   1/724098   {Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/64075)}   2
1/724097
1/724098   [Interfacing with an on-board device of a vehicle (for hands-free speaking in vehicles H04M 1/6075)
of a vehicle (for hands-free speaking in vehicles H04M 1/6075))  WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72463.  Groups H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/724634 h04M 1/724634 h04M 1/724634 hours from group H04M 1/724098.  Groups H04M 1/724099.  Groups H04M 1/724099 and H04M 1/724099 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412
WARNING  Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409.  Groups H04M 1/72409.  Groups H04M 1/72409.  Groups H04M 1/72409 and H04M 1/72409 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces  1/72415 for remote control of appliances 1/72418 for supporting emergency services 1/72410 with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72424 with manual activation of emergency service functions 1/72425 for supporting games or graphical animations 1/72426 for supporting games or graphical animations 1/72427 for supporting games or graphical animations 1/72430 for text messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72439 for large wind messaging for the complete search in order to perform a complete search.  Some telephonic functional locked states or applications remain accessible in the locked states or
Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409. Groups H04M 1/72409 and H04M 1/72409 should be considered in order to perform a complete search.  1/72412 . using two-way short-range wireless interfaces interfaces for remote control of appliances 1/72418 for remote control of appliances 1/72418 for supporting emergency services 1/72412 . with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72424 . with manual activation of emergency service functions of emergency service functions of management of messages 1/72475 specially adapted for disabled users 1/72473 with interactive means for internal management of messages 1/72484 wherein functions are triggered by incoming communication events analyse interfaces specially adapted therefor H04M 1/72409 interface specially adapted therefor H04M 1/72409 interfac
Group H04M 1/724098 is incomplete pending reclassification of documents from group H04M 1/72409. Groups H04M 1/72409 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412 . using two-way short-range wireless interfaces  1/72415 . for remote control of appliances 1/72416 . with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 . with manual activation of emergency-service functions 1/72425 . with manual activation of emergency-service functions 1/72426 . with manual activation of emergency-service functions 1/72427 . for supporting games or graphical animations 1/72428 . with interactive means for internal management of messages 1/7243 . for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72436 . for text messaging, e.g. short messaging services [SMS] or e-mails 1/72439 . for playing music files 1/72442 . for playing music files 1/72442 . for playing music files 1/72430 . using a control channel
pending reclassification of documents from group H04M 1/72409. Groups H04M 1/72409 and H04M 1/72409 should be considered in order to perform a complete search.  1/72412 . using two-way short-range wireless interfaces  1/72415 . for remote control of appliances  1/72418 . for supporting emergency services  1/72419 . with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 . with manual activation of emergency service functions  1/72424 . with manual activation of emergency service functions  1/72424 . with manual activation of emergency service functions  1/72425 . for supporting games or graphical animations  1/72426 . with netractive means for internal management of messages  1/7243 . for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 . for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 . for playing music files  1/72442 . using a control channel  1/72439 . for playing music files  1/72444 . using a control channel  1/72450 . Swith necessaging to decide the device by selecting functions from two or more displayed items, e.g. menus or icons  1/72472 . wherein the items are sorted according to specific criteria, e.g. frequency of use specific criteria
from group H04M 1/72409.  Groups H04M 1/72409 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412
Groups H04M 1/72409 and H04M 1/724098 should be considered in order to perform a complete search.  1/72412
H04M 1/724098 should be considered in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces  1/72415 for remote control of appliances  1/72418 for supporting emergency services  1/72419 with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 with manual activation of emergency service functions  1/72424 with manual activation of emergency service functions  1/72424 for supporting games or graphical animations  1/72424 for supporting games or graphical animations  1/7243 with interactive means for internal management of messages  1/7243 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72442 for playing music files  1/72443 for playing music files  1/7250 Radio link set-up procedures  1/7250 using a control channel
in order to perform a complete search.  1/72412 using two-way short-range wireless interfaces  1/72415 for remote control of appliances  1/72418 for supporting emergency services  1/72421 with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 with manual activation of emergency service functions  1/72424 with manual activation of emergency service functions  1/72425 for supporting games or graphical animations  1/72447 for supporting games or graphical animations  1/72481 with interactive means for internal management of messages  1/7243 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for playing music files  1/72442 for playing music files  1/72443 using a control channel  1/72444 with one base station connected to a single line  1/72442 using a control channel
1/72412 using two-way short-range wireless interfaces  1/72415 for remote control of appliances 1/72418 for supporting emergency services 1/72421 with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72424 with annual activation of emergency service functions 1/72424 with manual activation of emergency service functions 1/72425 for supporting games or graphical animations 1/72426 for supporting games or graphical animations 1/72427 for supporting games or graphical animations 1/7243 with interactive means for internal management of messages 1/7243 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails 1/72439 for playing music files 1/72442 . for playing music files 1/72508 using a control channel
interfaces  1/72415 for remote control of appliances  1/72418 for supporting emergency services  1/72421 with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 with manual activation of emergency service functions of emergency service functions of emergency service functions of emergency service functions  1/72424 with manual activation of emergency service functions  1/72425 for supporting games or graphical animations  1/72426 for supporting games or graphical animations  1/7247 for vice means for internal management of messages  1/7243 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for image or video messaging  1/72442 for playing music files  1/72442 for playing music files  1/72508 using a control channel
1/72415
1/72418 for supporting emergency services 1/72421 with automatic activation of emergency service functions, e.g. upon sensing an alarm 1/72424 with manual activation of emergency service functions 1/72424 with manual activation of emergency service functions 1/72425 for supporting games or graphical animations 1/72426 for supporting games or graphical animations 1/7243 with interactive means for internal management of messages 1/72431 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72432 for text messaging, e.g. short messaging services [SMS] or e-mails 1/72439 for playing music files 1/72442 for playing music files 1/72442 for playing music files 1/72442
1/72421 with automatic activation of emergency service functions, e.g. upon sensing an alarm  1/72424 with manual activation of emergency-service functions  1/72425 with manual activation of emergency-service functions  1/72426 for supporting games or graphical animations  1/72427 for supporting games or graphical animations  1/7243 with interactive means for internal management of messages  1/7243 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72442 for playing music files  1/72442 for playing music files  from two or more displayed items, e.g. menus or icons  1/72472 wherein the items are sorted according to specific criteria, e.g. frequency of use  1/72475 specially adapted for disabled users  1/72481 for hearing-impaired users  1/72481 for visually impaired users  1/72484 wherein functions are triggered by incoming communication events  1/7250 Cordless telephones (user interfaces specially adapted therefor H04M 1/724)  1/72505 with one base station connected to a single line  1/72505 Radio link set-up procedures  1/72508 using a control channel
1/72424 with manual activation of emergency- service functions
1/72424 with manual activation of emergency- service functions 1/72475 specially adapted for disabled users  1/72427 for supporting games or graphical animations 1/7243 with interactive means for internal management of messages 1/72481 for visually impaired users  1/72433 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/725 Cordless telephones (user interfaces specially adapted therefor H04M 1/724)  1/72439 for image or video messaging 1/72505 Radio link set-up procedures  1/72442 for playing music files 1/72508 using a control channel
service functions  1/72427 for supporting games or graphical animations  1/7243 with interactive means for internal management of messages  1/72433 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for playing music files  1/72442 for playing music files  1/72475 specially adapted for disabled users  1/72478 for hearing-impaired users  1/72481 for visually impaired users  1/72481 wherein functions are triggered by incoming communication events  1/72482 Cordless telephones (user interfaces specially adapted therefor H04M 1/724)  1/72502 with one base station connected to a single line  1/72505 Radio link set-up procedures  1/72508 using a control channel
1/72427 for supporting games or graphical animations 1/7243 with interactive means for internal management of messages 1/72433 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64) 1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails 1/72439 for playing music files 1/72442 for playing music files 1/72508 for hearing-impaired users 1/72481 for visually impaired users 1/72481 for visually impaired users 1/72481 for visually impaired users 1/72482 Cordless telephones (user interfaces specially adapted therefor H04M 1/724) 2 with one base station connected to a single line 1/72505 Radio link set-up procedures 1/72508 using a control channel
1/7243 with interactive means for internal management of messages  1/72434 for visually impaired users  1/72435 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for image or video messaging  1/72442 for playing music files  1/72508
management of messages  1/72434 wherein functions are triggered by incoming communication events  answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for image or video messaging  1/72442 for playing music files  1/72508 wherein functions are triggered by incoming communication events  1/7250 Cordless telephones (user interfaces specially adapted therefor H04M 1/724)  2 with one base station connected to a single line  1/72505 Radio link set-up procedures  1/72508 using a control channel
1/72433 for voice messaging, e.g. dictaphones (for answering incoming calls H04M 1/64)  1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for image or video messaging  1/72442 for playing music files  1/72502
1/72436 for text messaging, e.g. short messaging services [SMS] or e-mails  1/72439 for image or video messaging  1/72442 for playing music files  1/72508
services [SMS] or e-mails 1/72502 with one base station connected to a single line 1/72439 for image or video messaging 1/72505 Radio link set-up procedures 1/72442 for playing music files 1/72508 using a control channel
1/72439 for image or video messaging 1/72505 Radio link set-up procedures 1/72442 for playing music files 1/72508 using a control channel
1/72442 for playing music files 1/72508 using a control channel
1 7 6
1/70445 f
1/72445 for supporting Internet browser applications 1/72511 Searching for available channels 1/72513 On hold, intercom or transfer
device according to specific conditions  1/72513 On hold, interconford transfer  communication modes
1/72451 according to schedules, e.g. using calendar  1/72516 with means for out-of-range alerting
applications 1/727 Identification code transfer arrangements
1/72454 according to context-related or environment- 1/73 Battery saving arrangements
related conditions 1/733 with a plurality of base stations connected to
1/72457 according to geographic location a plurality of lines {(for selection in cordless
1/7246 by connection of exchangeable housing parts  PBX H04W 84/16)}  Characterized by temporalizing of
1/737 Characterised by transmission of electromagnetic waves other than radio waves,
e.g. infrared waves
1/738 • Interface circuits for coupling substations to
1/750 • Interface circuits for coupling substations to
external telephone lines ( <u>H04M 1/78</u> takes
external telephone lines (H04M 1/78 takes precedence)
external telephone lines ( <u>H04M 1/78</u> takes

for reducing effects due to line faults

1/745	• • • {Protection devices or circuits for voltages	3/2254	• • {in networks}
	surges on the line}	3/2263	• • • {Network management}
1/76	Compensating for differences in line impedance	3/2272	• • {Subscriber line supervision circuits, e.g. call
1/78	Circuit arrangements in which low-frequency	0.0001	detection circuits}
	speech signals proceed in one direction on the	3/2281	{Call monitoring, e.g. for law enforcement
	line, while speech signals proceeding in the other		purposes; Call tracing; Detection or prevention of
	direction on the line are modulated on a high- frequency carrier signal	2/220	malicious calls}
1/90	Telephone line holding circuits	3/229	• • {Wire identification arrangements; Number
1/80		2/24	assignment determination}
1/82	<ul> <li>Line monitoring circuits for call progress or status discrimination {(for detecting caller identity</li> </ul>	3/24	• with provision for checking the normal operation
	H04M 1/573)}	3/241	• • • {for stored program controlled exchanges}
	1104W 1/373) }	3/242	• • • • {Software testing}
3/00	Automatic or semi-automatic exchanges	3/244	• • · · {for multiplex systems}
	WARNING	3/245	• • • • {for ISDN systems}
		3/247	• • • {Knowledge-based maintenance systems}
	Group H04M 3/00 is incomplete pending	3/248	• • • { for metering arrangements or prepayment
	reclassification of documents from group		telephone systems (metering arrangements per
	<u>G06Q 50/40</u> .		se <u>H04M 15/00</u> ; prepayment telephone systems
	Groups <u>G06Q 50/40</u> and <u>H04M 3/00</u> should be	2/26	<u>per se H04M 17/00</u> )}
	considered in order to perform a complete search.	3/26	• with means for applying test signals {or for
3/002	• {Applications of echo suppressors or cancellers in	2/29	measuring}
	telephonic connections (in two-way loud-speaking	3/28	<ul> <li>Automatic routine testing {; Fault testing;</li> <li>Installation testing; Test methods, test</li> </ul>
	telephone systems <u>H04M 9/08</u> , echo suppressors or		equipment or test arrangements therefor}
	cancellers per se H04B 3/20)}	3/30	• • • • for subscriber's lines {, for the local loop}
3/005	• {Interface circuits for subscriber lines (current	3/301	{Circuit arrangements at the subscriber's
	supply H04M 19/00 and subgroups; supervisory,	3/301	side of the line}
	monitoring or testing arrangements H04M 3/22 and	3/302	• • • • { using modulation techniques for copper
	subgroups; in key telephone systems <u>H04M 9/006</u> )}	3/302	pairs (for ISDN systems H04M 3/245;
3/007	• • {Access interface units for simultaneous		ISDN selection or connection testing
	transmission of speech and data, e.g. digital		arrangements <u>H04Q 11/045</u> )}
	subscriber line [DSL] access interface units	3/303	• • • • • { and using PCM multiplexers, e.g. pair
	(DSL access multiplexers <u>H04Q 11/0478</u> , and		gain systems}
2/02	<u>H04L 12/2856</u> )}	3/304	{and using xDSL modems (xDSL line
3/02	• Calling substations, e.g. by ringing (selective calling		qualification H04M 3/306)}
2/04	H04Q)	3/305	{testing of physical copper line
3/04	the calling signal being supplied from the final selector		parameters, e.g. capacitance or resistance
3/06	the calling signal being supplied from the		(locating faults in cables <u>G01R 31/08</u> )}
3/00	subscriber's line circuit	3/306	• • • • • {for frequencies above the voice
3/08	Indicating faults in circuits or apparatus		frequency, e.g. xDSL line qualification
3/085	{Fault locating arrangements}		(test methods, test equipment and test
3/10	Providing fault- or trouble-signals		arrangements for subscriber lines using
3/10	Marking faulty circuits "busy"; Enabling		xDSL modems <u>H04M 3/304</u> ; systems modifying transmission characteristics
3/12	equipment to disengage itself from faulty circuits		according to link quality H04L 1/0001;
	{; Using redundant circuits; Response of a circuit,		monitoring and/or testing of line
	apparatus or system to an error}		transmission systems H04B 3/46)}
3/14	Signalling existence of persistent "off-hook"	3/307	· · · · · { using ringback}
	condition	3/308	{Craftsperson test terminals}
3/16	<ul> <li>with lock-out or secrecy provision in party-line</li> </ul>	3/32	for lines between exchanges
	systems	3/323	• • • • • • • • • • • • • • • • • • •
3/18	<ul><li>with means for reducing interference {or noise};</li></ul>	3/3/23	connection (test connection, test call, call
	with means for reducing effects due to line faults		simulation)}
	{with means for protecting lines}	3/326	• • • • • {for registers and translators}
3/20	<ul> <li>with means for interrupting existing connections;</li> </ul>	3/34	Testing for cross-talk
	with means for breaking-in on conversations	3/36	Statistical metering, e.g. recording occasions
3/205	{Eavesdropping prevention - indication of	2,20	when traffic exceeds capacity of trunks
	insecurity of line or network}	3/362	{Traffic simulation}
3/22	· Arrangements for supervision, monitoring or testing	3/365	{Load metering of control unit}
3/2209	• • {for lines also used for data transmission}	3/367	{Traffic or load control}
3/2218	• • {Call detail recording}	3/38	• Graded-service arrangements, i.e. some subscribers
3/2227	• • {Quality of service monitoring}	2.20	prevented from establishing certain connections
3/2236	• • {Quality of speech transmission monitoring}		(queuing arrangements <u>H04Q 3/64</u> )
3/2245	• • {Management of the local loop plant}	3/382	• {using authorisation codes or passwords}
			· · ·

2/205	( )	2442252	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3/385	• • {using speech signals}	3/42263	• • • {where the same subscriber uses different
3/387	• • {using subscriber identification cards}	2/12252	terminals, i.e. nomadism}
3/40	<ul> <li>Applications of speech amplifiers</li> </ul>	3/42272	• • • {whereby the subscriber registers to the
3/42	Systems providing special services or facilities	2/4220	terminals for personalised service provision}
	to subscribers (specially adapted for wireless	3/4228	• {in networks}
	communication networks <u>H04W 4/00</u> )	3/42289	• • • {with carrierprovider selection by subscriber}
3/42008	• • {Systems for anonymous communication between	3/42297	1 3,
	parties, e.g. by use of disposal contact identifiers}	3/42306	• • • {Number translation services, e.g. premium-
3/42017	• • {Customized ring-back tones}		rate, freephone or vanity number services}
3/42025	• • {Calling or Called party identification service}		• • {in private branch exchanges}
3/42034	• • • {Calling party identification service}	3/42323	• • {PBX's with CTI arrangements}
3/42042	• • • {Notifying the called party of information	3/42331	• • {Direct inward dialling}
	on the calling party (details within substation	3/4234	{Remote access to features of PBX or home
	equipment <u>H04M 1/57</u> , signalling details		telephone systems-teleworking in a PBX}
	<u>H04Q 3/72</u> )}	3/42348	• • {Location-based services which utilize the
3/42051	• • • • { where the notification is included in the		location information of a target}
	ringing tone}	3/42357	• • • {where the information is provided to a
	• • • {Making use of the calling party identifier}		monitoring entity such as a potential calling
3/42068	• • • • { where the identifier is used to access a		party or a call processing server}
	profile}	3/42365	• • {Presence services providing information on
3/42076	• • • • { where the identifier is a Uniform		the willingness to communicate or the ability
	Resource Locator}		to communicate in terms of media capability or
3/42085	• • {Called party identification service}		network connectivity}
3/42093	( ; ; ;	3/42374	• • { where the information is provided to a
	on the called or connected party}		monitoring entity such as a potential calling
3/42102	• • • {Making use of the called party identifier}		party or a call processing server}
3/4211	{where the identifier is used to access a	3/42382	• • {Text-based messaging services in telephone
	profile}		networks such as PSTN/ISDN, e.g. User-to-User
3/42119	{where the identifier is a Uniform		Signalling or Short Message Service for fixed
	Resource Locator}		networks}
3/42127	{Systems providing several special	3/42391	• • {where the subscribers are hearing-impaired
	services or facilities from groups		persons, e.g. telephone devices for the deaf}
	<u>H04M 3/42008</u> - <u>H04M 3/58</u> }	3/424	Arrangements for automatic redialling (at the
3/42136	• • {Administration or customisation of services}		subscriber's set H04M 1/27)
3/42144	• • • {by service provider}	3/428	Arrangements for placing incoming calls on hold
3/42153	• • · {by subscriber}	3/4281	• • • {when the called subscriber is connected to a
3/42161	• • • {via computer interface}		data network using his telephone line, e.g. dial-
3/4217	• • • {Managing service interactions}	2/4202	up connection, Internet browsing}
3/42178	• • • {by downloading data to substation equipment}	3/4283	{Call holding circuits}
3/42187	• • {Lines and connections with preferential service}	3/4285	• • • {Notifying, informing or entertaining a held
3/42195	• • {Arrangements for calling back a calling	2/1205	party while on hold, e.g. Music On Hold}
	subscriber (when the wanted subscriber ceases to	3/4286	• • • {Notifying a held subscriber when his held call
	be busy <u>H04M 3/48</u> )}	2/1200	is removed from hold}
3/42204	• • {Arrangements at the exchange for service	3/4288	{Notifying a called subscriber of an incoming
	or number selection by voice (at the terminal	24422	call during an ongoing call, e.g. Call Waiting}
	<u>H04M 1/27</u> )}	3/432	Arrangements for calling a subscriber at a specific
3/42212	• • {Call pickup (comprising simultaneous alerting	2/126	time, e.g. morning call service
	<u>H04M 3/46</u> )}	3/436	. Arrangements for screening incoming calls {,
3/42221	• • {Conversation recording systems (at the		i.e. evaluating the characteristics of a call before
	subscriber's set H04M 1/656)		deciding whether to answer it (based on the calling party profile <u>H04M 3/42059</u> ; based on
3/42229	{Personal communication services, i.e. services		location H04M 3/42348; based on presence
	related to one subscriber independent of his		H04M 3/42365; diversion H04M 3/54)}
	terminal and/or location (diverting calls from one	3/4365	• • • {based on information specified by the calling
	subscriber to another subscriber, i.e. two different	J/ 7JUJ	party, e.g. priority or subject}
	subscriptions <u>H04M 3/54</u> ; selecting arrangements	3/44	<ul> <li>Additional connecting arrangements for providing</li> </ul>
	in intelligent networks <u>H04Q 3/005</u> )}	J/ TT	access to frequently-wanted subscribers, e.g.
3/42238	• • • {in systems with telephone lines with multiple		abbreviated dialling (at the subscriber's set
	users}		H04M 1/27; automatic redialling H04M 3/424)
3/42246	• • • {where the subscriber uses a multi-mode	3/46	Arrangements for calling a number of substations
	terminal which moves and accesses different		in a predetermined sequence until an answer is
	networks with at least one network having a		obtained
0//0075	wireline access including cordless PBX}		
3/42255	• • • { with the subscriber having a personal network-independent number }		
	nerwork-maebenaem miniber}		

network-independent number}

3/465	• • • {Arrangements for simultaneously calling a number of substations until an answer is	3/5238 { with waiting time or load prediction arrangements}
3/48	obtained} Arrangements for recalling a calling subscriber	3/527 Centralised call answering arrangements not requiring operator intervention
	when the wanted subscriber ceases to be busy	3/53 Centralised arrangements for recording
3/487	Arrangements for providing information services, e.g. recorded voice services or time	incoming messages {, i.e. mailbox systems}
	announcements	3/5307 {for recording messages comprising any combination of audio and non-audio
3/4872	• • • {Non-interactive information services}	components}
3/4874	• • • {Intercept announcements}	3/5315 {where the non-audio components are
3/4876	{Time announcements}	still images or video (still image mailbox
3/4878	{Advertisement messages}	systems <u>H04N 1/324</u> , intermediate storage of video signals for videophones
3/493	Interactive information services, e.g. directory	H04N 7/147)}
	enquiries {; Arrangements therefor, e.g. interactive voice response [IVR] systems or	3/5322 {for recording text messages}
	voice portals}	3/533 Voice mail systems
3/4931	{Directory assistance systems}	3/53308 {Message originator indirectly connected
3/4933	• • • • {with operator assistance}	to the message centre, e.g. after detection
3/4935	{Connection initiated by DAS system}	of busy or absent state of a called party}
3/4936	{Speech interaction details (speech	3/53316 {Messaging centre selected by message
	recognition per se G10L 15/00)}	originator}
3/4938	• • • {comprising a voice browser which renders	3/53325 {Interconnection arrangements between
	and interprets, e.g. VoiceXML}	voice mail systems}
3/50	Centralised arrangements for answering calls;	3/53333 {Message receiving aspects} 3/53341 {Message reply}
	Centralised arrangements for recording messages	
	for absent or busy subscribers ( <u>H04M 3/487</u> takes precedence; centralised dictation systems	3/5335 {Message type or catagory, e.g. priority, indication}
	H04M 11/10); {Centralised arrangements for	3/53358 {Message preview}
	recording messages}	3/53366 {Message disposing or creating aspects}
3/51	Centralised call answering arrangements	3/53375 {Message broadcasting}
	requiring operator intervention {, e.g. call or	3/53383 {Message registering commands or
	contact centers for telemarketing}	announcements; Greetings}
3/5108	{Secretarial services}	3/53391 {dependent on calling party}
3/5116	• • • • {for emergency applications}	3/537 Arrangements for indicating the presence of
3/5125	• • • { with remote located operators }	a recorded message {, whereby the presence
3/5133	{Operator terminal details}	information might include a preview or
3/5141	• • • {Details of processing calls and other types of contacts in an unified manner (unified	summary of the message } 3/54 • Arrangements for diverting calls for
	messaging in packet-switching networks	one subscriber to another predetermined
	H04L 51/56)}	subscriber {(based on the calling party
3/515	{Night service systems}	profile H04M 3/42059; based on location
3/5158	{in combination with automated outdialling	H04M 3/42348; based on presence
	systems (devices for signalling identity of	<u>H04M 3/42365</u> ; to voice mail <u>H04M 3/53308</u> )}
	wanted subscriber <u>H04M 1/26</u> )}	3/541 {based on information specified by the calling
3/5166	• • • {in combination with interactive voice	party}
	response systems or voice portals, e.g. as	3/543 {Call deflection}
3/5175	front-ends} {Call or contact centers supervision	3/545 {with loop avoiding arrangements} 3/546 {in private branch exchanges}
3/31/3	arrangements}	3/546 {in private branch exchanges} 3/548 {with remote control}
3/5183	{Call or contact centers with computer-	3/56 . Arrangements for connecting several subscribers
0,0100	telephony arrangements}	to a common circuit, i.e. affording conference
3/5191	{interacting with the Internet}	facilities (video conference systems <u>H04N 7/15</u> )
3/52	Arrangements for routing dead number calls	3/561 {by multiplexing}
	to operators	3/562 • • • {where the conference facilities are distributed}
3/523	with call distribution or queueing	3/563 {User guidance or feature selection}
3/5231	• • • • {with call back arrangements}	3/564 {whereby the feature is a sub-conference}
		3/565 {relating to time schedule aspects}
3/5232	{Call distribution algorithms}	
3/5232 3/5233	• • • • • {Operator skill based call distribution}	3/566 {relating to a participants right to
3/5232 3/5233 3/5234	<ul><li> {Operator skill based call distribution}</li><li> {Uniform load distribution}</li></ul>	3/566 {relating to a participants right to speak (arrangements for multi-party
3/5232 3/5233	<ul><li> {Operator skill based call distribution}</li><li> {Uniform load distribution}</li><li> {Dependent on call type or called</li></ul>	3/566 {relating to a participants right to speak (arrangements for multi-party communication with floor control, e.g. for
3/5232 3/5233 3/5234 3/5235	<ul> <li> {Operator skill based call distribution}</li> <li> {Uniform load distribution}</li> <li> {Dependent on call type or called number [DNIS]}</li> </ul>	3/566 {relating to a participants right to speak (arrangements for multi-party communication with floor control, e.g. for conferences, H04L 65/4038, H04L 65/4046,
3/5232 3/5233 3/5234	<ul><li> {Operator skill based call distribution}</li><li> {Uniform load distribution}</li><li> {Dependent on call type or called</li></ul>	3/566 {relating to a participants right to speak (arrangements for multi-party communication with floor control, e.g. for

3/568	• • • {audio processing specific to telephonic conferencing, e.g. spatial distribution, mixing	7/0009	<ul> <li>{ where voice calls remain entirely in the telephone network}</li> </ul>
	of participants (echo suppression in two-way loud-speaking telephone systems <u>H04M 9/02</u> ;		WARNING
2/560	sound field processing per se H04S 7/30)}		This group is no longer used for the classification of new documents as from
3/569	(speech detection per se G10L 25/78)		February 1, 2007. The backlog of this group is
3/58	Arrangements for transferring received calls from one subscriber to another; Arrangements		being continuously reclassified to subgroups of <u>H04M 7/0024</u> or <u>H04M 7/1205</u>
	affording interim conversations between either	7/0012	• {Details of application programming interfaces
	the calling or the called party and a third party (substation line holding circuits <u>H04M 1/80</u> )		[API] for telephone networks; Arrangements which combine a telephonic communication equipment
3/60	• Semi-automatic systems, i.e. in which the numerical		and a computer, i.e. computer telephony integration
	selection of the outgoing line is under the control of an operator	_,_,_	[CPI] arrangements}
3/62	Keyboard equipment {(in key telephone systems)	7/0015	• • {First party call control architectures}
	<u>H04M 9/003</u> )}	7/0018 7/0021	• • {Computer Telephony Resource Boards}
3/64	Arrangements for signalling the number or	7/0021	<ul><li>. {Details of Application Programming Interfaces}</li><li>. {Services and arrangements where telephone</li></ul>
	class of the calling line to the operator (between	7/0024	services are combined with data services
	operators in inter- exchange working <u>H04M 5/18</u> )		(arrangements which combine a telephonic
5/00	Manual exchanges (substation equipment in general	T/0025	equipment and a computer H04M 7/0012)
5/02	H04M 1/00)  Constructional details (isolar isolar pluca	7/0027	• • {Collaboration services where a computer is used for data transfer and the telephone is used for
5/02	Constructional details (jacks, jack-plugs H01R 24/58)		telephonic communication}
5/04	Arrangements for indicating calls or supervising	7/003	• • {Click to dial services}
	connections for calling or clearing	7/0033	• • {Notification or handling of incoming calls by a
5/06	<ul> <li>affording automatic call distribution</li> </ul>		computer}
5/08	<ul> <li>using connecting means other than cords</li> </ul>	7/0036	• • {where the data service is an information service}
5/10	<ul> <li>using separate plug for each subscriber</li> </ul>	7/0039	• • {where the data service is provided by a stream
5/12	• Calling substations, e.g. by ringing		of packets which are rendered in real time by the
5/14	<ul> <li>Applications of speech amplifiers</li> </ul>		receiving terminal (network streaming of media
5/16	• with means for reducing interference; with means	7/0042	packets <u>H04L 65/60</u> )} • • {where the data service is a text-based messaging
<i>E</i> /10	for reducing effects due to line faults	7/0042	service (H04M 7/0054 takes precedence)}
5/18	<ul> <li>Arrangements for signalling the class or number of called or calling line from one exchange to another</li> </ul>	7/0045	• • • {where the text-based messaging service is an
5/20	Arrangements for indicating the numbers of the		instant messaging service}
	incoming lines	7/0048	• • { where the text-based messaging service is a Short Message Service}
7/00	Arrangements for interconnection between	7/0051	• • {where the data service is a multimedia
7/0002	switching centres		messaging service}
7/0003	• {Interconnection between telephone networks and data networks}	7/0054	<ul><li>• {where the data service is an electronic mail service}</li></ul>
	WARNING	7/0057	<ul> <li>{ Services where the data services network provides a telephone service in addition or as</li> </ul>
	This group is no longer used for the classification of new documents as from February 1, 2007. The backlog of this group is being continuously		an alternative, e.g. for backup purposes, to the telephone service provided by the telephone services network}
	reclassified to subgroups of <u>H04M 7/0024</u> or <u>H04M 7/1205</u>	7/006	• {Networks other than PSTN/ISDN providing telephone service, e.g. Voice over Internet Protocol
7/0006	• • {where voice calls cross both networks}		(VoIP), including next generation networks with a packet-switched transport layer (H04L 65/00)
	WARNING		takes precedence; aspects not specific to the type
	This group is no longer used for the classification of new documents as from		of network <u>H04M 3/00</u> ; special services in those networks <u>H04M 3/42</u> )}
	February 1, 2007. The backlog of this group is	7/0063	• • {where the network is a peer-to-peer network}
	being continuously reclassified to subgroups of <u>H04M 7/0024</u> or <u>H04M 7/1205</u>	7/0066	<ul> <li>{ Details of access arrangements to the networks (where the access arrangement is a PSTN/ISDN access H04M 7/122)}</li> </ul>
		7/0069	• • • {comprising a residential gateway, e.g. those
			which provide an adapter for POTS or ISDN terminals}

7/0072

 $terminals\}$ 

precedence)}

. . {Speech codec negotiation ( $\underline{H04L\ 65/1069}$  takes

7/0075	<ul> <li>{Details of addressing, directories or routing tables}</li> </ul>	7/128	<ul> <li>. • {Details of addressing, directories or routing tables}</li> </ul>
7/0078	• • {Security; Fraud detection; Fraud prevention}	7/1285	• • {Details of finding and selecting a gateway for a particular call}
7/0081	{Network operation, administration, maintenance, or provisioning}	7/129	• • • {Details of providing call progress tones or
7/0084	• • • {Network monitoring; Error detection; Error recovery; Network testing}	7/1295	announcements} {Details of dual tone multiple frequency
7/0087	• • {Network planning or provisioning}	7/14	signalling}
7/009	• {in systems involving PBX or KTS networks}	7/14	<ul> <li>in systems involving main and subordinate switching centres</li> </ul>
7/0093	• {signalling arrangements in networks}	7/16	in systems employing carrier frequencies
7/0096	• {Trunk circuits}		· in systems employing carrier frequencies
7/06	<ul> <li>using auxiliary connections for control or supervision {, e.g. where the auxiliary connection is a signalling system number 7 link}</li> </ul>	9/00	Arrangements for interconnection not involving centralised switching
7/063	{where the telephone network is a network other than PSTN/ISDN}	9/001	• {Two-way communication systems between a limited number of parties}
7/066	• • {where the auxiliary connection is via an Internet Protocol network (interworking of signalling	9/002	• {with subscriber controlled access to a line, i.e. key telephone systems}
7/08	system number 7 (SS7) with Internet Protocol- based session control protocols <u>H04M 7/1265</u> , <u>H04M 7/127</u> )}  • for phantom working {(phantom working in	9/003	{Transmission of control signals from or to the key telephone set; signalling equipment at key telephone set, e.g. keyboard or display equipment (keyboard equipment in semi-automatic systems).
7700	transmission of digital information <u>H04L 5/20</u> )}	0.005	<u>H04M 3/62</u> )}
7/12	• for working between exchanges having different	9/005	• • { with subscriber controlled access to an exchange
	types of switching equipment, e.g. power-driven and step by step or decimal and non-decimal	9/006	<ul><li>line}</li><li>• {Exchange line circuits (subscriber line circuits H04M 3/005)}</li></ul>
7/1205	• • {where the types of switching equipement	9/007	• • • {wherein the key telephone sets are star-
	comprises PSTN/ISDN equipment and switching equipment of networks other than PSTN/ISDN,		connected to a central unit by a limited number of lines}
7/121	<ul><li>e.g. Internet Protocol networks}</li><li> {Details of network access arrangements or</li></ul>	9/008	• • {Multiplex systems}
//121	protocols}	9/02	<ul> <li>involving a common line for all parties</li> </ul>
7/1215	• • • • {where a cable TV network is used as an	9/022	• • {Multiplex systems}
7/122	access to the PSTN/ISDN} {where the PSTN/ISDN access is used as	9/025	• • • {Time division multiplex systems, e.g. loop systems}
,,122	an access to networks other than PSTN/	9/027	• • • {Frequency division multiplex systems}
	ISDN (access arrangements to networks	9/04	• involving a separate line for each pair of parties
	other than PSTN/ISDN <u>H04M 7/0066</u> ;	9/06	• involving combinations of interconnecting lines
7/1225	access arrangements to public data networks  H04L 12/2856)}	9/08	<ul> <li>Two-way loud-speaking telephone systems with means for conditioning the signal, e.g. for suppressing echoes for one or both directions of</li> </ul>
7/1225	• • • {Details of core network interconnection arrangements}	0/092	traffic
7/123	• • • • { where the packet-switched network is an Internet Protocol Multimedia System-type	9/082	• • {using echo cancellers (echo cancellers <u>per se</u> <u>H04B 3/23</u> )}
7/1235	network} {where one of the core networks is a wireless	9/085	• • {using digital techniques ( <u>H04M 9/082</u> takes precedence)}
	network}	9/087	• • {using different frequency bands for transmitting
7/124	• • • {where PSTN/ISDN interconnects two networks other than PSTN/ISDN}		and receiving paths (for line transmission in general <u>H04B 3/21</u> ); using phase shifting
7/1245	• • • {where a network other than PSTN/ISDN interconnects two PSTN/ISDN networks}	9/10	arrangements} with switching of direction of transmission by
7/125	• • {Details of gateway equipment}		voice frequency
7/1255	<ul> <li>. • • {where the switching fabric and the switching logic are decomposed such as in Media Gateway Control}</li> </ul>	11/00	Telephonic communication systems specially adapted for combination with other electrical systems
7/126	• • • {Interworking of session control protocols}	11/002	• { with telemetering systems (telemetering in general
7/1265	• • • { where the session control protocols comprise H.323 and SS7}		<u>G08C</u> )}
7/127	• • • {where the session control protocols	11/005	• { using recorded signals, e.g. speech }
11121	comprise SIP and SS7}	11/007	• { with remote control systems (remote control in general <u>G08C</u> )}
7/1275	• • • {Methods and means to improve the telephone	11/02	• with bell or annunciator systems
	service quality, e.g. reservation, prioritisation	11/022	Paging systems (personal calling arrangements)
	or admission control}	/ <b>-</b>	or devices <u>G08B 3/1008</u> ; selective calling networks <u>H04W 84/022</u> )}

11/025	• • {Door telephones (adapted for television	15/31	• {Distributed metering or calculation of charges}
11/027	<u>H04N 7/186</u> )}	15/32	• {Charging, billing or} metering arrangements for
11/027	<ul><li>. {Annunciator systems for hospitals}</li><li>. with alarm systems, e.g. fire, police or burglar alarm</li></ul>		satellites or concentrators which connect one or more exchange lines with a group of local lines
11/04	systems	15/34	• {Charging, billing or} metering arrangements for
11/045	• • {using recorded signals, e.g. speech}	13/34	private branch exchanges
11/06	Simultaneous speech and data transmission, e.g.	15/36	• {Charging, billing or} metering arrangements for
	telegraphic transmission over the same conductors		party-lines
11/062	<ul> <li>• {using different frequency bands for speech and other data}</li> </ul>	15/38	• {Charging, billing or} metering by apparatus other than mechanical step-by-step counter type
11/064	<ul> <li>{Data transmission during pauses in telephone conversation}</li> </ul>	15/39	• {Arrangements for preventing metering, charging or billing}
11/066	• • {Telephone sets adapted for data transmission}	15/41	• {Billing record details, i.e. parameters, identifiers,
11/068	• • {using time division multiplex techniques;		structure of call data record [CDR]}
	(integrated services digital networks	15/42	• {Dynamic individual rates per user}
	H04Q 11/0428)}	15/43	• {Billing software details}
11/08	<ul> <li>specially adapted for optional reception of entertainment or informative matter</li> </ul>	15/44	• {Augmented, consolidated or itemized billing statement or bill presentation}
11/085	<ul> <li>{using a television receiver, e.g. viewdata system}</li> </ul>	15/46	<ul> <li>{Real-time negotiation between users and providers or operators}</li> </ul>
11/10	<ul> <li>with dictation recording and playback systems</li> </ul>	15/47	• {Fraud detection or prevention means}
		15/48	• {Secure or trusted billing, e.g. trusted elements or
13/00	Party-line systems (substation equipment H04M 1/00; exchange equipment H04M 3/00,		encryption}
	H04M 5/00; exchange equipment H04M 5/00, H04M 5/00; metering arrangements H04M 15/36)	15/49	• {Connection to several service providers}
		15/50	• {for cross-charging network operators}
15/00	Arrangements for metering, time-control or	15/51	• {for resellers, retailers or service providers}
	time indication {; Metering, charging or billing	15/52	• {for operator independent billing system}
	arrangements for voice wireline or wireless	15/53	• {using mediation}
	communications, e.g. VoIP}	15/54	• {for revenue sharing}
	WARNING	15/55	• {for hybrid networks}
	Group H04M 15/00 is incomplete pending	15/56	• {for VoIP communications}
	reclassification of documents from group G06Q 50/40.	15/57	• {for integrated multimedia messaging subsystem [IMS]}
		15/58	• {based on statistics of usage or network monitoring}
	Groups G06Q 50/40 and H04M 15/00 should be	15/59	• {based on real time}
	considered in order to perform a complete search.	15/60	• {based on actual use of network resources}
15/04	• Recording calls {, or communications} in printed,	15/61	• {based on the service used}
	perforated or other permanent form	15/62	• {based on trigger specification}
15/06	<ul><li>Recording class or number of calling {, i.e. A-party} or called party {, i.e. B-party}</li></ul>	15/63	• {based on the content carried by the session initiation protocol [SIP] messages}
15/07	• {Split billing, i.e. both A-party and B-party charged	15/64	• {On-line charging system [OCS]}
	for the communication}	15/65	• {Off-line charging system}
15/08	• Metering calls to called party {, i.e. B-party charged	15/66	• {Policy and charging system}
	for the communication}	15/67	• {Transmitting arrangements for sending billing
15/09	• {Third party charged communications}		related information}
15/10	• Metering calls from calling party {, i.e. A-party	15/68	• {Payment of value-added services}
15/10	charged for the communication}	15/70	• {Administration or customization aspects; Counter-
15/12	Discriminative metering {, charging or billing}		checking correct charges}
15/14	according to class of calling party	15/705	• • {Account settings, e.g. limits or numbers or
15/16 15/18	according to connection obtained	1 5 /7 1	payment }
15/18	<ul> <li>according to duration of the call {, or the communication}</li> </ul>	15/71	• • {Modifying recharging resources}
15/20	Operator's time recording or indicating	15/715 15/72	• • {Activating new subscriber or card}
13/20	arrangements	15/72	• {by the user}
15/22	according to time of day	15/721	{using the Internet}
15/24	preventing metering of tax-free calls to certain	15/723	• • { (using the user's device }
	lines, e.g. to fire or ambulance stations	15/725	• {by the operator}
15/26	• • with a meter {or performing charging or billing}	15/73	• {Validating charges}
	at the exchange controlled by an operator	15/735	• • {Re-crediting user}
15/28	• with meter at substation {or with calculation of	15/74	• {Backing up}
	charges at terminal}	15/745	<ul> <li>{Customizing according to wishes of subscriber,</li> <li>e.g. friends or family}</li> </ul>
15/30	• • the meter {or calculation of charges} not being	15/75	• . {Account location specifications}
	controlled from an exchange	13/13	• • {Account rocation specifications}

15/751	• • • {Card based account, e.g. smart card, SIM card	15/825 • • {based on the number of used channels, e.g.
13/731	or USIM}	bundling channels, frequencies or CDMA codes}
15/750	•	
15/752	{Terminal based account}	15/8257 {Unit based}
15/753	{Network based account}	15/8264 {Pulse based}
15/755	{Account identification}	15/8271 {Based on the number of used services, e.g. call
15/7553	• • • {via service number, e.g. calling card}	forwarding or call barring}
15/7556	• • • {by SIM, e.g. smart card account in SCP, SDP	15/8278 • • {Event based}
	or SN}	15/8285 {Money or currency based}
15/76	• • {Synchronization of distributed accounts}	15/8292 • • {Charging for signaling or unsuccessful
15/765	{Linked or grouped accounts, e.g. of users or	connection}
	devices}	15/83 • {Notification aspects}
15/7652	• • { shared by users }	15/835 {Time or frequency of notifications, e.g. Advice
15/7655	• • {shared by technologies}	of Charge [AoC]}
15/7657	• • • {for closed subscriber group [CSG]}	15/8351 {before establishing a communication}
15/77	• • {involving multiple accounts per user}	15/8353 {during the communication}
15/771	• • (Involving manaple accounts per user) • • • (per terminal or location, e.g. mobile device	15/8355 {after the end of the communication}
13/1/1	with multiple directory numbers}	15/8356 {in regular intervals}
15/770		· · · · · · · · · · · · · · · · · · ·
15/772	• • {per service, e.g. prepay or post-pay}	15/8358 {Dynamic change of the length or frequency of
15/773	• • • {per technology, e.g. PSTN or wireless}	the notification interval }
15/774	{per card}	15/84 {Types of notifications}
15/775	• • {Account specifications on parallel	15/842 {Announcement, e.g. IVR dialogue}
	communications}	15/844 {Message, e.g. SMS}
15/78	<ul> <li>{Redistributing amount between accounts}</li> </ul>	15/846 • • • { optical, e.g. icon }
15/781	{dynamically}	15/848 {Tone, e.g. beeper}
15/783	• • {by user request}	15/85 {characterised by the type of condition triggering
15/785	• • {Reserving amount on the account}	a notification}
15/79	• • {Virtual purses}	15/851 {Determined tariff}
15/80	• {Rating or billing plans; Tariff determination	15/852 {Low balance or limit reached}
13/00	aspects}	15/853 {Calculate maximum communication time or
15/8005	• • {Flat-fee}	volume}
15/8003		15/854 • • • {Available credit}
	• • {using class of subscriber}	
15/8016	• • {based on quality of service [QoS]}	15/855 {Successful event}
15/8022	• • {Determining tariff or charge band}	15/856 {Unsuccessful event}
15/8027	• • {based on network load situation}	15/857 {Cumulative charges}
15/8033	• • {location-dependent, e.g. business or home}	15/858 {Request users acknowledgement prior to use}
15/8038	• • {Roaming or handoff}	15/86 • • {Recipients of the notification}
15/8044	• • {Least cost routing}	15/863 {multiple parties, e.g. multi party AOC}
15/805	• • • {Bidding}	15/866 {a predetermined or undetermined destination,
15/8055	{Selecting cheaper transport technology for a	e.g. notifying a prepaid accounting server of a
	given service}	successful delivery of a service}
15/8061	Selecting least cost route depending on origin	15/88 • {Provision for limiting connection, or expenditure}
13/0001	or type of service}	15/881 {for continuing the call beyond the limit using
15/8066	• • {According to the number of recipients}	allow grace}
		15/882 {for continuing the call beyond the limit using an
15/8072	• • • {Group, conference or multi-party call}	alternative, e.g. alternative account}
15/8077	• • • {Group MMS or SMS; Point-to-multi-point	The second secon
	services or broadcast services}	15/883 • • {linked escalation limits, i.e. establish, first or second limit}
15/8083	• • {involving reduced rates or discounts, e.g. time-	,
	of-day reductions or volume discounts}	15/885 • · {limit per application}
15/8088	• • {involving increased rates, e.g. spam messaging	15/886 {limit per terminal}
	billing differentiation}	15/887 • • {limit per user or user related number}
15/8094	• • {Trial service, i.e. free of charge service for trial	15/888 • • { severing connection after predetermined time or
	purposes}	data}
15/81	• {Dynamic pricing, e.g. change of tariff during call}	15/90 • {using Intelligent Networks [IN] or Advanced
15/82	• {Criteria or parameters used for performing billing	Intelligent Networks [AIN]}
	operations}	15/93 • {using near field or similar technologies}
15/8207	• • {Time based data metric aspects, e.g. VoIP or	
-5,020,	circuit switched packet data}	
15/8214	{Data or packet based}	
15/8221	• • {Message based}	
15/8228	• • {Session based}	
15/8235	{Access based}	
15/8242	• • {Transaction based}	

17/00	Prepayment {of wireline communication systems,		• • • {public, e.g. public recharge point}
	wireless communication systems or} telephone		{local at the terminal itself}
	systems (using a coded card to authorise calls from a		{code type}
	telephone set H04M 1/675)		{alphanumeric}
	WARNING	2017/2568	• • {bar code}
	Group H04M 17/00 is incomplete pending	2017/2575	• • • {pattern, i.e. single or changing sequences of pictures or patterns}
	reclassification of documents from group	2017/2581	• • {punched holes}
	<u>G06Q 50/40</u> .	2017/2587	• • {temporarily valid code}
	Groups <u>G06Q 50/40</u> and <u>H04M 17/00</u> should be	2017/2593	. {code management}
	considered in order to perform a complete search.	2017/26	• {with real-time recharging of account/card, e.g. if
17/005	• {Disposable prepaid communication devices}	2017/20	limit is reached during connection user is asked if he
17/003	• {Cocot systems, i.e. private ownership of		wants to recharge or not}
17/01	payphones}	17/30	• {using a code}
17/02	• Coin-freed or check-freed systems {, e.g. mobile- or	17/301	• {Code input or reading}
17/02	card-operated phones, public telephones or booths}	17/302	• • {from communication terminal display}
17/023	{Circuit arrangements}	17/303	• • {from material cards, i.e. magnetic stripe card}
17/026	• {Constructional features}	17/304	{Optical code recognition [OCR], e.g. bar code
17/020	• {Account details or usage}	17/304	reader}
17/10	<ul><li> {Account details of usage}</li><li> {using SIMs (USIMs) or calling cards}</li></ul>	17/305	• • {Wireless codes, e.g. Bluetooth or RFID}
17/103	<ul> <li>• {using Shvis (OShvis) of caring cards}</li> <li>• {using commercial credit or debit cards}</li> </ul>	17/306	<ul> <li>• (whereas codes, e.g. blactood of R1 b)</li> <li>• (using public code readers, e.g. public payment)</li> </ul>
2017/12	<ul><li> {using confinercial credit of debit cards}</li><li> {using calling, telephone credit/debit cards}</li></ul>	17/300	or recharge point}
2017/12	<ul> <li>{using carring, telephone credit/debit cards}</li> <li>{using commercial credit/debit cards, e.g. VISA,</li> </ul>	17/307	• • {Code type, e.g. alphanumeric code, bar code}
2017/14	AMEX}	17/308	• {Code management}
17/20	• {with provision for recharging the prepaid account	17/35	• {Pay as you go}
	or card, or for credit establishment}	19/00	Current supply arrangements for telephone
17/201	<ul> <li>{automatic recharging with predetermined amount at threshold}</li> </ul>		systems (for selecting-equipment <u>H04Q 1/28</u> )
17/202	• • {selecting interactively a payment method}	19/001	• {Current supply source at the exchanger providing
17/203	• • { cash-based recharging, i.e. physical input of	19/003	<ul><li>current to substations }</li><li>. {Arrangements for compensation of the DC flux</li></ul>
17/204	coins or bank notes \		in line transformers}
17/204 17/205	<ul><li>• {on-line recharging, e.g. cashless}</li><li>• • {by calling a service number, e.g. interactive}</li></ul>	19/005	• • {Feeding arrangements without the use of line
	voice response [IVR] or menu}	10/006	transformers}
17/206	• • • {by sending a message, e.g. SMS, MMS or EMS}	19/006	• • {Circuits for increasing the range of current supply source}
17/207	• • {using signaling, e.g. USSD, UUS or DTMF}	19/008	• • {Using DC/DC converters (DC/DC converters
17/207	• • • (using WAP or Internet, i.e. including		per se <u>H02M 3/28</u> )}
	electronic payment, e.g. e-cash}	19/02	<ul> <li>providing ringing current or supervisory tones, e.g. dialling tone or busy tone</li> </ul>
2017/22	• {with automatic recharging of account/card, e.g. if	19/023	• • {by reversing the polarity of the current at the
	limit is reached during connection the account is		exchange}
2015/222	recharged automatically}	19/026	• • {Arrangements for interrupting the ringing
2017/222	{at threshold}		current}
2017/225	• • {with predetermined amount}	19/04	the ringing-current being generated at the
2017/227	• • {with amount selected interactively}		substations
2017/24	• {with on-line recharging of an account or card, e.g. cashless}	19/041	• • • {Encoding the ringing signal, i.e. providing distinctive or selective ringing capability}
2017/241	• • {by calling a service number IVR, menu}	19/042	• • • {with variable loudness of the ringing tone, e.g.
2017/243	• • {by sending a message, e.g. SMS, MMS, EMS}		variable envelope or amplitude of ring signal}
2017/245	{using money, i.e. physical input of coins or bank	19/044	• • • {according to the level of ambient noise}
	notes}	19/045	{Call privacy arrangements, e.g. timely
2017/246	• • {using signalling, e.g. USSD, UUS, DTMF}		inhibiting the ring signal}
2017/248	• • {using WAP or Internet, i.e. including electronic	19/047	• • {Vibrating means for incoming calls}
2015/25	payment, e-cash, etc.}	19/048	{Arrangements providing optical indication of
2017/25	• {using a code}		the incoming call, e.g. flasher circuits}
2017/2506	• • {code input or reading}	19/06	<ul> <li>in which current supply sources at subordinate</li> </ul>
	• • • {from communication terminal display}		switching centres are charged from the main
2017/2518	• • • (from material card, using a magnetic stripe	10/00	exchange
2017/2525	card} {optical code recognition [OCR], e.g. bar code	19/08	• with current supply sources at the substations (generating ringing current <u>H04M 19/04</u> )
	reader}		
	• • • {wireless, e.g. Bluetooth, RFID}		
2017/2537	{code reader}		

99/00	Subject matter not provided for in other groups of this subclass	2203/105	• Financial transactions and auctions, e.g. bidding (auctioneering devices in packet switching networks H04L 12/1804)
2201/00	Electronic components, circuits, software, systems	2203/1058	Shopping and product ordering
	or apparatus used in telephone systems	2203/1066	Game playing
2201/02	. Diodes	2203/1075	. Telemetering, e.g. transmission of ambient
2201/04	. Transistors		measurements
2201/06	Integrated circuits	2203/1083	for hotels
2201/08	Magnetic elements	2203/1091	Fixed mobile conversion
2201/10	. Logic circuits	2203/15	<ul> <li>related to dial plan and call routing</li> </ul>
2201/12	Counting circuits	2203/152	Temporary dial plan
2201/14	Delay circuits; Timers	2203/154	Functional or symbolic dial plan such as license
2201/16	Sequence circuits		plate numbers
2201/18	. Comparators	2203/156	On-line status dependent routing
2201/20	. Scanners	2203/158	• Call-type dependent routing (route determination
2201/22	Synchronisation circuits		based on the nature of the carried application in
2201/26	• A/D convertors		packet switching networks <u>H04L 45/306</u> )
2201/28	• S/P convertors	2203/20	• related to features of supplementary services
2201/30	• PCM	2203/2005	. Temporarily overriding a service configuration
2201/32	Personal computers	2203/2011	Service processing based on information
2201/34	. Microprocessors		specified by a party before or during a call, e.g.
2201/36	. Memories	2202/2016	information, tone or routing selection  Call initiation by network rather than by
2201/38	. Displays	2203/2016	subscriber
2201/39	using speech synthesis (speech synthesis <u>per se</u>	2203/2022	. Path replacement
	<u>G10L 13/00</u> )	2203/2022	Live party detection
2201/40	• using speech recognition (speech recognition per se	2203/2033	Call handling or answering restrictions, e.g.
2201/405	G10L 15/00)	2203/2033	specified by the calling party
2201/405	involving speaker-dependent recognition     (adaptation to speaker for speech recognition	2203/2038	Call context notifications
	G10L 15/07)	2203/2044	Group features, e.g. closed user group
2201/41	using speaker recognition (speaker recognition per	2203/205	Broadcasting (broadcasting in packet switching)
2201/41	se G10L 17/00)		networks <u>H04L 12/18</u> )
2201/42	Graphical user interfaces	2203/2055	Line restrictions
2201/50	Telephonic communication in combination with	2203/2061	Language aspects
	video communication	2203/2066	• Call type detection of indication, e.g. voice or fax,
2201/52	Telephonic communication in combination with fax		mobile of fixed, PSTN or IP
	communication	2203/2072	Schedules, e.g. personal calendars
2201/54	Object oriented software	2203/2077	. Call queuing apart from automatic call
2201/60	Medium conversion		distribution
2201/80	. line protection circuits such as current or	2203/2083	Confirmation by serviced party
	overvoltage protection circuits	2203/2088	. Call or conference reconnect, e.g. resulting from
2203/00	Aspects of automatic or semi-automatic exchanges		isdn terminal portability
2203/05	related to OAM&P	2203/2094	Proximity
2203/051	technician dispatch system	2203/25	• related to user interface aspects of the telephonic
2203/051	software update		communication service
2203/052	• remote terminal provisioning, e.g. of applets	2203/251	• where a voice mode or a visual mode can be used
2203/055	loopback testing	2202/252	interchangeably
2203/056	• non-invasive testing, i.e. in operation testing	2203/252	where a voice mode is enhanced with visual information
2203/030	without service interruption	2203/253	where a visual mode is used instead of a voice
2203/057	distortion monitoring (QoS monitoring	2203/233	mode
	H04M 3/2227; quality of speech transmission	2203/254	where the visual mode comprises menus
	monitoring <u>H04M 3/2236</u> )	2203/255	comprising a personalized user interface
2203/058	signature devices	2203/256	comprising a service specific user interface
2203/10	• related to the purpose or context of the telephonic	2203/257	remote control of substation user interface for
	communication	2203/237	telephonic services, e.g. by ISDN stimulus, ADSI,
2203/1008	Calls without connection establishment for		wireless telephony application WTA, MExE or
	implicit information transfer or as a service		BREW
	trigger	2203/258	Service state indications
2203/1016	Telecontrol	2203/30	related to audio recordings in general
2203/1025	of avatars	2203/301	Management of recordings
2203/1033	Remote administration, e.g. of web servers	2203/303	Marking
2203/1041	Televoting	2203/305	Recording playback features, e.g. increased speed

2203/306 • Prerecordings to be used during a voice call	2203/5063 . Centrally initiated conference, i.e. Conference
2203/308 . Personal name recording	server dials participants (computer conference
2203/35 . related to information services provided via a voice	organisation arrangements <u>H04L 12/1818</u> )
call	2203/5072 Multiple active speakers (conducting a
2203/351 . Pre or post-call/conference information service	computer conference, e.g. Admission detection
2203/352 . In-call/conference information service	<u>H04L 12/1822</u> )
2203/353 where the information comprises non-audio	2203/5081 Inform conference party of participants,
but is provided over voice channels (protocols	e.g. of change of participants (conducting a
for multimedia information services per se	computer conference, e.g. admission detection,
<u>H04L 65/00</u> )	<u>H04L 12/1822</u> )
2203/354 Reverse directory service	2203/509 Microphone arrays
2203/355 . Interactive dialogue design tools, features or	• related to network data storage and management
methods	2203/551 . Call history (recording a computer conference
2203/356 Phonecasting	<u>H04L 12/1831</u> )
2203/357 . Autocues for dialog assistance	2203/552 . Call annotations
2203/358 . Digital rights management	2203/553 Data upload
2203/359 • Augmented reality	2203/554 . Data synchronization
2203/40 • related to call centers	2203/555 . Statistics, e.g. about subscribers but not being call
	statistics
	2203/556 Statistical analysis and interpretation
2203/402 . Agent or workforce management	2203/557 • Portable profiles
2203/403 Agent or workforce training	2203/558 • Databases
2203/404 Collaboration among agents	2203/559 Sorting systems
2203/405 Competitive bidding for work items	8 3
2203/406 Rerouting calls between call centers	. related to security aspects in telephonic communication systems (network architectures
. Call center operated for multiple customers	or network communication protocols for network
2203/408 Customer-specific call routing plans	security <u>H04L 63/00</u> )
. related to voicemail messaging	2203/6009 • Personal information, e.g. profiles or personal
2203/4509 Unified messaging with single point of access to	directories being only provided to authorised
voicemail and other mail or messaging systems	persons
(unified messaging in packet switching networks	2203/6018 Subscriber or terminal logon/logoff
<u>H04L 51/56</u> )	
2203/4518 Attachments to voicemail (messages including	2203/6027 • Fraud preventions
	2203/6036 Anti virus measures
annexed information, e.g. Attachments, in packet switching networks <u>H04L 51/08</u> )	2203/6045 Identity confirmation
annexed information, e.g. Attachments, in packet	<ul><li>2203/6045 Identity confirmation</li><li>2203/6054 Biometric subscriber identification</li></ul>
annexed information, e.g. Attachments, in packet switching networks <u>H04L 51/08</u> )	<ul> <li>2203/6045 . Identity confirmation</li> <li>2203/6054 . Biometric subscriber identification</li> <li>2203/6063 . Authentication using cards</li> </ul>
annexed information, e.g. Attachments, in packet switching networks <u>H04L 51/08</u> )  2203/4527  2203/4536  Voicemail attached to other kind of message  2203/4536  Voicemail combined with text-based messaging	<ul><li>2203/6045 Identity confirmation</li><li>2203/6054 Biometric subscriber identification</li></ul>
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annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527	<ul> <li>2203/6045 . Identity confirmation</li> <li>2203/6054 . Biometric subscriber identification</li> <li>2203/6063 . Authentication using cards</li> <li>2203/6072 . Authentication using challenger response</li> <li>2203/6081 . Service authorization mechanisms</li> <li>2203/609 . Secret communication</li> <li>2203/65 . related to applications where calls are combined with other types of communication</li> </ul>
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annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527	<ul> <li>2203/6045 . Identity confirmation</li> <li>2203/6054 . Biometric subscriber identification</li> <li>2203/6063 . Authentication using cards</li> <li>2203/6072 . Authentication using challenger response</li> <li>2203/6081 . Service authorization mechanisms</li> <li>2203/609 . Secret communication</li> <li>2203/65 . related to applications where calls are combined with other types of communication</li> <li>2203/651 . Text message transmission triggered by call (automatic reactions in messaging within packet-switching networks H04L 51/02)</li> </ul>
annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527	<ul> <li>2203/6045 . Identity confirmation</li> <li>2203/6054 . Biometric subscriber identification</li> <li>2203/6063 . Authentication using cards</li> <li>2203/6072 . Authentication using challenger response</li> <li>2203/6081 . Service authorization mechanisms</li> <li>2203/609 . Secret communication</li> <li>2203/65 . related to applications where calls are combined with other types of communication</li> <li>2203/651 . Text message transmission triggered by call (automatic reactions in messaging within packet-switching networks H04L 51/02)</li> <li>2203/652 . Call initiation triggered by text message</li> </ul>
annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527 • Voicemail attached to other kind of message  2203/4536 • Voicemail combined with text-based messaging  2203/4545 • Message forwarding (selective message forwarding in packet switching networks H04L 51/214)  2203/4554 • Sender-side editing  2203/4563 • Voicemail monitoring during recording  2203/4572 • Voicemail RSS  2203/4581 • Sending message identifiers instead of whole messages (notification of incoming messages in packet-switching networks H04L 51/224)  2203/459 • Calling party redirected to message centre on called party request	<ul> <li>2203/6045</li> <li>Identity confirmation</li> <li>2203/6054</li> <li>Biometric subscriber identification</li> <li>2203/6063</li> <li>Authentication using cards</li> <li>2203/6072</li> <li>Authentication using challenger response</li> <li>Service authorization mechanisms</li> <li>2203/609</li> <li>Secret communication</li> <li>related to applications where calls are combined with other types of communication</li> <li>Text message transmission triggered by call (automatic reactions in messaging within packet-switching networks H04L 51/02)</li> <li>2203/652</li> <li>Call initiation triggered by text message</li> <li>Pre, in or post-call message</li> <li>Combination of telephone service and social</li> </ul>
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annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527 . Voicemail attached to other kind of message  2203/4536 . Voicemail combined with text-based messaging  2203/4545 . Message forwarding (selective message forwarding in packet switching networks H04L 51/214)  2203/4554 . Sender-side editing  2203/4572 . Voicemail monitoring during recording  2203/4572 . Voicemail RSS  2203/4581 . Sending message identifiers instead of whole messages (notification of incoming messages in packet-switching networks H04L 51/224)  2203/459 . Calling party redirected to message centre on called party request  2203/50 . related to audio conference  (conducting a computer conference, e.g. admission detection H04L 12/1822)  2203/5018 . Initiating a conference during a two-party conversation, i.e. three-party-service or three-way-call (computer conference organisation arrangements H04L 12/1818)  2203/5027 . Dropping a party from a conference (conducting a computer conference, e.g. admission detection H04L 12/1822)  2203/5036 . using conference for collection of feedback	<ul> <li>2203/6045 <ul> <li>Biometric subscriber identification</li> <li>2203/6063</li> <li>Authentication using cards</li> </ul> </li> <li>2203/6072 <ul> <li>Authentication using challenger response</li> </ul> </li> <li>2203/6081 <ul> <li>Service authorization mechanisms</li> </ul> </li> <li>2203/609 <ul> <li>Secret communication</li> </ul> </li> <li>2203/65 <ul> <li>related to applications where calls are combined with other types of communication</li> </ul> </li> <li>2203/651 <ul> <li>Text message transmission triggered by call (automatic reactions in messaging within packet-switching networks H04L 51/02)</li> </ul> </li> <li>2203/652 <ul> <li>Call initiation triggered by text message</li> </ul> </li> <li>2203/655 <ul> <li>Combination of telephone service and social networking (messaging within social networks H04L 51/52)</li> </ul> </li> <li>2203/657 <ul> <li>Combination of voice and fax calls</li> </ul> </li> <li>2203/658 <ul> <li>Combination of voice calls and paging</li> </ul> </li> <li>2207/00 <ul> <li>Type of exchange or network, i.e. telephonic medium, in which the telephonic communication takes place</li> </ul> </li> <li>2207/08 <ul> <li>ISDN systems</li> <li>intelligent networks</li> <li>cable networks</li> </ul> </li> </ul>
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annexed information, e.g. Attachments, in packet switching networks H04L 51/08)  2203/4527	<ul> <li>2203/6045 . Identity confirmation</li> <li>2203/6054 . Biometric subscriber identification</li> <li>2203/6063 . Authentication using cards</li> <li>2203/6072 . Authentication using challenger response</li> <li>2203/6081 . Service authorization mechanisms</li> <li>2203/609 . Secret communication</li> <li>2203/65 . related to applications where calls are combined with other types of communication</li> <li>2203/651 . Text message transmission triggered by call (automatic reactions in messaging within packet-switching networks H04L 51/02)</li> <li>2203/652 . Call initiation triggered by text message</li> <li>2203/654 . Pre, in or post-call message</li> <li>2203/655 . Combination of telephone service and social networking (messaging within social networks H04L 51/52)</li> <li>2203/657 . Combination of voice and fax calls</li> <li>2203/658 . Combination of voice calls and paging</li> <li>2207/00 Type of exchange or network, i.e. telephonic medium, in which the telephonic communication takes place</li> <li>2207/08 . ISDN systems</li> <li>2207/12 . intelligent networks</li> <li>2207/14 . cable networks</li> <li>2207/18 . wireless networks</li> <li>2207/182 . wireless circuit-switched</li> </ul>
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2207/203	composed of PSTN and data network, e.g. the Internet	2215/0196		• Payment of value-added services, mainly when their charges are added on the telephone bill, e.g.
2207/206	composed of PSTN and wireless network			payment of non-telecom services, e-commerce,
2207/30	third party service providers			on-line banking
2207/35	• virtual private networks	2215/14		Billing aspects relating to the actual charge
2207/40	terminals with audio html browser	2215/143		• Non communication time, i.e. billing the user for
2207/45	• public-private interworking, e.g. centrex			the actual time used by the service, not for the
2215/00	Metering arrangements; Time controlling			time awaiting responses due to network problems; Billing the user when there is a satisfied QoS
2215/01	arrangements; Time indicating arrangements  Details of billing arrangements	2215/146	•	<ul> <li>Data billing, e.g. wherein the user is charged based only on the time he receives data</li> </ul>
2215/0104	Augmented, consolidated or itemised billing	2215/20		Technology dependant metering
2213/0104	statement, e.g. additional billing information,	2215/2006		• Fixed telephone network, e.g. POTS, ISDN
	bill presentation, layout, format, e-mail, fax,	2215/2013		• Fixed data network, e.g. PDN, ATM, B-ISDN
	printout, itemised bill per service or per account,	2215/202		• VoIP; Packet switched telephony
	cumulative billing, consolidated billing	2215/2026		• Wireless network, e.g. GSM, PCS, TACS
2215/0108		2215/2033		• WLAN
	e.g. customer preferences, friends and family,	2215/204		• UMTS; GPRS
	selecting services or billing options, Personal Communication Systems [PCS]	2215/2046		. Hybrid network
2215/0112	Dynamic pricing, e.g. change of tariff during call	2215/2053		. In based PPS
2215/0112	Provision for limiting expenditure, e.g. limit on	2215/206		• CDMA, i.e. Code Division Multiple Access
2213/0110	call expenses or account	2215/2066		Service node based PPS
2215/012	Continue allow grace, e.g. accept negative	2215/2073		• Multipoint, e.g. messaging, broadcast or group
2213/012	balance			SMS
2215/0124	Continue alternative, i.e. alternative account to	2215/208	•	• IMS, i.e. Integrated Multimedia messaging
	continue use			Subsystem
2215/0128	Linked escalation limits, establish, first or	2215/2086		• xDSL Modem lines, e.g. HDSL or ADSL
	second limit	2215/2093		• Push to talk
2215/0132	Limit per application	2215/22		Bandwidth or usage-sensitve billing
2215/0136	Limit per terminal	2215/24	•	Voice over IP billing
2215/014	Limit per user or user related number	2215/26	•	Data billing charged as a voice call, i.e. based on
2215/0144	Release upon reaching limit	2215/22		time or unit charging
2215/0148	Fraud detection or prevention means	2215/28	•	SMS billing
2215/0152	• General billing plans, rate plans, e.g. charge rates,	2215/32		Involving wireless systems
	numbering plans, rate centers, customer accounts	2215/34 2215/42		Roaming Least cost routing, i.e. provision for selecting the
2215/0156	Secure and trusted billing, e.g. trusted elements,	2213/42	•	lowest cost tariff
	encryption, digital signature, codes or double check mechanisms to secure billing calculation	2215/44		Charging/billing arrangements for connection made
	and information	2210/		over different networks, e.g. wireless and PSTN,
2215/016	Billing using Intelligent Networks [IN] or			ISDN, etc.
	Advanced Intelligent Networks [AIN]	2215/46		Connection to several service providers
2215/0164	Billing record, e.g. Call Data Record [CDR],	2215/48	•	Sending information over a non-traffic network
	Toll Ticket[TT], Automatic Message Accounting			channel or another connection than the one actually
	[AMA], Call Line Identifier [CLI], details, i.e.			used, e.g. signalling, D-channel, data and voice
	parameters, identifiers, structure	2215/52	•	Interconnection, inter-exchange, reseller billing,
2215/0168	. On line or real-time flexible customization or			billing agreements between different operators, e.g. billing identifier added on the CDR in order to cross
2215/0172	negotiation according to wishes of subscriber  • Mediation, i.e. device or program to reformat			charge the other operator, inter-operator accounting,
2215/0172	CDRS from one or more switches in order to			reconciliation, bill directly resellers customers
	adapt to one or more billing programs formats	2215/54		Resellers-retail or service providers billing, e.g.
2215/0176	Billing arrangements using internet			agreements with telephone service operator,
2215/018	. On-line real-time billing, able to see billing			activation, charging/recharging of accounts
	information while in communication, e.g. via the	2215/56	•	On line or real-time flexible agreements between
	internet	2215/62		service providers and telecoms operators
2215/0184		2215/62	•	Called party billing, e.g. reverse billing, freephone,
	day reductions, volume discounts, cell discounts,	2215/64		collect call, 0800 or 0900  Split billing sharing the cost of calls a g between
	group billing, frequent calling destination(s) or user history list	2215/64	•	Split billing, sharing the cost of calls, e.g. between calling and called parties
2215/0188	Network monitoring; statistics on usage on called/	2215/66		Third party billing, i.e. third party can also be the
2213/0100	calling number		•	predetermined telephone line of the caller if he is
2215/0192	Sponsored, subsidised calls via advertising, e.g.			calling from another telephone set
	calling cards with ads or connecting to special	2215/68		Billing calls completely to the calling party, except
	ads, free calling time by purchasing goods			POTS, e.g. charge on caller's choice service

2015/70	0015/7471
<ul> <li>Administration aspects, modify settings or limits or counter-check correct charges</li> </ul>	2215/7471 Select route depending on origin or type of service, e.g. route TDMA voice calls
	differently than VoIP calls
2215/7009 • Account settings, e.g. users, terminals, limits, numbers or payment	2215/7478 According to the number of recipients
2215/7018 • • Modify recharging resources, e.g. banking, credit,	2215/7485 Group call; Conference call; Multi Party Call
debit or phone account	2215/7492 Group MMS or SMS; Point-to-multi-point
2215/7027 . Activate new subscriber or card	services, broadcast services
2215/7036 • Administer via user	2215/78 • Metric aspects
2215/7045 Using Internet or WAP	2215/7806 Time based
2215/7054 Using the phone	2215/7600 . Time based data, e.g. VoIP or circuit switched
2215/7063 • Administer via operator	packet data
2215/7007 • Validate charges	2215/782 . Data or packet based
2215/7081 Re-credit user, e.g. repay user with the amount	2215/7826 Message based
or free time after finding an error in calculating	2215/7833 Session based
the charges	2215/784 • • Access based
2215/709 Backup	2215/7846 . Transaction based
2215/72 • Account specifications	2215/7853 • Based on the number of used channels, e.g.
2215/7204 Account location	bundling channels or frequencies or CDMA codes
2215/7209 Card based, e.g. smart card, SIM card or USIM	2215/786 • • Unit based
2215/7213 Terminal based	2215/7866 • • Pulse based
2215/7218 Network based	2215/7873 Based on the number of used services, e.g. call
2215/7222 . Account identification	forwarding or call barring
2215/7227 via service number, e.g. calling card	2215/788 Event based
2215/7231 by SIM, e.g. smart card account in SCP, SDP	2215/7886 Apply cheapest or best package, e.g. selection
or SN	among available tariffs or packages (least cost
2215/7236 Synchronisation of distributed accounts	routing <u>H04M 2215/42</u> )
2215/724 Linked accounts	2215/7893 Money or currency based
2215/7245 Shared by users, e.g. group accounts or one	2215/81 • Notifying aspects, e.g. notifications or displays to
account for different users	the user
2215/725 Shared by technologies, e.g. one account for	2215/8104 • Time or frequency of notification
different access technologies	2215/8108 before establishing a communication
2215/7254 Multiple accounts per user	2215/8112 during the communication
2215/7259 per terminal or location; Mobile with	2215/8116 after the end of the communication
multiple directory numbers	2215/812 in regular intervals
2215/7263 per service, e.g. prepay and post-pay	2215/8125 Dynamic change of the length/frequency of
2215/7268 per technology, e.g. PSTN or wireless	the length of the notification interval, e.g.
2215/7272 per card	depending on the remaining available prepaid
2215/7277 Account specifications on parallel	credit
communications	2215/8129 Type of notification
2215/7281 Redistribute amount between accounts	2215/8133 Announcement, e.g. IVR dialogue, intelligent
2215/7286 Dynamically	peripheral or switch
2215/729 by user request	2215/8137 Message, e.g. alphanumeric text, SMS, MMS,
2215/7295 Reserve amount, e.g. according to estimated	EMS or www-based messaging service
costs for a typical communication duration	2215/8141 Optical, e.g. flashing indication of a lamp, icon, soft-key or symbol
or according to the estimated volume to be	2215/8145 Tone, e.g. beeper, sound, wave
transferred	2215/815 Notification when a specific condition, service or
• Rating aspects, e.g. rating parameters or tariff determination apects	event is met
•	2215/8154 Determined tariff
2215/7414 class of subscriber	2215/8158 Low balance or limit reached
2215/7421 QoS	2215/8162 Calculate maximum communication time or
2215/7421 . Determine tariff or charge band	volume
2215/7428 • Load situation, e.g. Current network load, traffic load or available resources	2215/8166 Available credit
	2215/817 Successful event, e.g. successful recharge or
2215/7435 • Location dependent, e.g. Bussiness or home 2215/7442 • Roaming	delivery of a service
-	2215/8175 Unsuccessful event, e.g. service rejected due to
2215/745 • Least cost routing, e.g. Automatic or manual, call by call or by preselection	low credit
2215/7457 Biding	2215/8179 Cumulative charges
2215/7464 Select transport technology for a given service,	2215/8183 Request users acknowledgement prior to use
e.g. use for data connection WLAN rather	2215/8187 Send to
than GSM/UMTS/GPRS or use company's	2215/8191 multiple parties, e.g. multi party AOC
communication network rather than a public	
network	

network

2215/8195	• • a predetermined or undetermined destination,	2250/54	including functional features of a projector or
	e.g. notifying a prepaid accounting server of a		beamer module assembly (constructional features
	successful delivery of a service, a connection,		concerning the integration of projectors in portable
	or chargeable content to a mobile terminal		phones <u>H04M 1/0272</u> )
2215/82	• Advice-of-Charge [AOC], i.e. notify subscriber of	2250/56	• including a user help function
	charges/cumulative charge; meter at the substation	2250/58	including a multilanguage function
2215/825	Select from different charging routines or	2250/60	• logging of communication history, e.g. outgoing
	algorithms or formulas		or incoming calls, missed calls, messages or
2215/92	. Autonomous calculations of charges in terminal, i.e.		URLs (logging of telephone numbers <u>H04M 1/56</u> ,
	meter not controlled from exchange		<u>H04M 1/57</u> )
2215/96	Distributed calculation of charges, e.g. in different	2250/62	• user interface aspects of conference calls
	nodes like for mobiles between HLR and VLR, or	2250/64	• file transfer between terminals (download of
	between the terminal and the billing function		applications <u>H04M 1/72406</u> ; transfer of messages,
2242/00	Special services or facilities	2250/66	e.g. SMS, e-mail or MMS <u>H04M 1/7243</u> )
2242/02	Broadcasting	2250/66	• user interface aspects for indicating selection
2242/04	for emergency applications	2250/60	options for a communication line
2242/06	Lines and connections with preferential service	2250/68	• with means for recording information, e.g.
2242/08	menus for interactive user guidance		telephone number during a conversation (recording
2242/10	Secret communications	2250/70	of telephone conversations <u>H04M 1/656</u> )
2242/12	Language recognition, selection or translation	2250/70	methods for entering alphabetical characters,     e.g. multi-tap or dictionary disambiguation
22 12/12	arrangements		(methods for entering alphabetical characters <u>per se</u>
2242/14	with services dependent on location (where the		G06F 3/0237)
22 12/11	service is an information service <u>H04M 2242/15</u> ;	2250/72	• user manuals of subscriber equipments, e.g. of
	services independent of location H04M 3/42229)	2230/12	mobile phones
2242/15	Information service where the information is	2250/74	with voice recognition means (voice activated)
	dependent on the location of the subscriber	2230/14	dialling H04M 1/271; voice recognition algorithms
2242/16	• with computer telephone integration		G10L 15/00)
2242/18	Automated outdialling systems		<u>9102 10,00</u> )
2242/20	Televoting service		
2242/22	Automatic class or number identification		
,	arrangements		
2242/24	• Detection or indication of type terminal or call, (e.g.		
	fax, broadband)		
2242/26	Paging systems		
2242/28	Services making use of subscriber schedule		
	information		
2242/30	Determination of the location of a subscriber		
2242/40	Data synchronization between user terminals and		
	central server		
2242/405	Incremental backup		
	- ·		
2250/00	Details of telephonic subscriber devices		
2250/02	including a Bluetooth interface		
2250/04	• including near field communication means, e.g.		
	RFID		
2250/06	including a wireless LAN interface		
2250/08	home cordless telephone systems using the DECT		
	standard		
2250/10	• including a GPS signal receiver		
2250/12	• including a sensor for measuring a physical value,		
	e.g. temperature or motion (telephones including		
2250/14	GPS signal receivers <u>H04M 2250/10</u> )		
2250/14	including a card reading device		
2250/16	• including more than one display unit		
2250/18	including more than one keyboard unit		
2250/20	including a rotatable camera		
2250/22	including a touch pad, a touch sensor or a touch		
2256 /52	detector (digitizers for touch screens <u>G06F 3/041</u> )		
2250/52	• including functional features of a camera		
	(constructional features concerning the integration		
	of cameras in portable phones <u>H04M 1/0264</u> )		