

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W01-A01B2A	Viterbi coding	(H03M-013)			
W01-A01B2C	Reed Solomon coding	(H03M-013)			
W01-A01B2E	Turbo coding	(H03M-013)	Parallel concatenated convolutional codes		
W01-A01B2G	Combined convolutional coding scheme	(H03M-013)	Includes use of e.g. Reed Solomon and Viterbi coding.		
W01-A01B2S	Novel algorithm or software aspects	(G06F, H03M-013)	Codes from class T01 are normally assigned for these aspects also, e.g. from the T01-S group.		
W01-A01B2X	Other aspects of error correction based on convolutional codes	(H03M-013)			
W01-A01C1	Signal quality detection based on measurement of bit error rate	(H04L-001/20-24)	This code is intended to be used when the emphasis is on BER measurement, for whatever purpose. Systems with the emphasis on overall link quality and testing for correct operation are covered by W01-A01C5. BER measurement for radio communications receivers is covered by W02-G03J5 codes.		
W01-A01C1A	Novel hardware or software aspects for BER measurement	(H04L-001/20-24)	Codes from class T01 are normally assigned for software or algorithm-based aspects also, e.g. from the T01-S group.		
W01-A01C1C	Applications of BER measurement	(H04L-001/20-24)	This code is intended for arrangements which make use of a BER measurement which is already available, and not itself the novel aspect. This code may be used with W01-A01C5 when the purpose is the establishment of a link quality value, QoS, etc.		

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W01-A01C5	Testing correct operation	(H04L-001/20-24)	This code is intended to be used when the emphasis is testing satisfactory link operation, making use of error detection and possibly involving other parameters also. Systems with the emphasis on BER measurement, and novel methods or hardware for this, are covered by W01-A01C1 codes. Fault detection and monitoring of data networks is covered by W01-A06A codes and by W01-A07L for data transmission in general, which may be assigned in conjunction with this, and other W01-A01C codes, as necessary.		
W01-A03D1	Half duplex	(H04L-005/16)			
W01-A03D5	Full duplex	(H04L-005/14, 18)			
W01-A03E	WDM and FDM	(H04L-005, H04J-001, H04J-014/02)			
W01-A03E1	WDM	(H04L-005, H04J-14/02)	WDM in general is assigned W02-C04B4B and W02-K04. General aspects of optical data transmission are covered by W01-A07E, and those specific to data networks by W01-A06C1 (optical fibre-based) and W01-A06C3 (free-space transmission). Optical communication in general is covered by W02-C04 codes. Novel optical components are covered in V07, especially V07-K04.		
W01-A03E5	FDM	(H04L-005, H04J-001)	FDM in general is assigned W02-K01 codes.		

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W01-A06B7A	Novel internet system details	(H04L-012/28)	This code is used for novel aspects of internet systems, and may involve computing aspects represented by T01 codes, e.g. T01-N or T01-M02A codes. Applications of the internet are coded in W01-A06B7C when specific codes elsewhere are not appropriate.		
W01-A06B7C	Applications of internet	(H04L-012/28)	This code is intended for applications which can not be represented by codes elsewhere. Thus, it will not normally be used for inventions involving the application of the internet to e.g. email, e-commerce, chatrooms, etc., for which T01-N01 codes are assigned.		
W01-A06B7E	Intranet system	(H04L-012/28)			
W01-A06C4A	Bluetooth(r) radio link	(H04L-012)	Novel aspects of the frequency-hopping system are also assigned W02-K05A6 and other W02-K05 codes as appropriate.		
W01-A06C4C	DECT-based radio link	(H04L-012)	DECT systems for actual telephone usage are assigned W01-B05A1B and W02-C03C3 codes, with handsets covered by W01-C01D1 codes.		
W01-A06C4X	Other radio link for networks	(H04L-012)			
W01-A06F1	Access control	(H04L-005, -012)	Search with W01-A06 codes for network aspects, e.g. with W01-A06B5A for access control in LANs. See also T01 codes, such as T01-H07B and T01-N02 codes.	Access right, protocol, arbitration, code division, CDMA, binding	

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W01-A06F1A	Contention protocols	(H04L-005, -012) (W01-A03A1, W01-A06F)	Includes Carrier Sense Multiple Access/Collision Detect (CSMA/CD and CA) and Ethernet. Request handling for interconnection or data transfer in computer systems is covered by T01-H05 codes, e.g. T01-H05B3 for contention avoidance for access to common bus.	Collision detection, DC level shift, heterodyne, Ethernet(r), timeout period, random delay, collision avoidance, contention	
W01-A06F1C	Polling protocols	(H04L-005,-012, -012/403, -012/423) (W01-A06E2A, W01-A06F)	Includes hub and roll call polling. Prior to 2002 polling was covered by W01-A06E2A with W01-A06F for protocol aspects.		
W01-A06F1E	Token pass protocols	(H04L-005,-012) (W01-A03A3)	Token pass protocols for ring networks are also coded in W01-A06B2, and in W01-A06B1 for bus networks.	Dynamic logical ring, priority token, address, FDDI	
W01-A06F1G	Time Division Multiple Access (TDMA)	(H04L-005) (W01-A03A2)	See W02-C03B and W02-K codes, e.g. W02-C03B1D and W02-K02D, for TDMA aspects of satellite radio systems.	Aloha, slotted, synchronous, frame, burst transmission, DQDB (distributed queue dual bus), CRMA (cyclic reservation multiple access)	
W01-A06F2	Network layer protocols	(H04L-012)	Routing, Mobile IP, IP multicast, UDP(User Datagram Protocol)		
W01-A06F2A	IP	(H04L-012) (W01-A06B7, W01-A06F)			
W01-A06F2C	TCP/IP	(H04L-012)			
W01-A06F3	Application layer protocols	(H04L-012)		HTTP, Telnet, FTP, SMTP, NNTP, Network File System, DNS/BIND, SNMP, POP, RTP, URIs, MIME	

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W01-A06F5	Novel protocol	(H04L-012)	This code is used with other W01-A06F codes as appropriate to denote that some aspect of the protocol itself is novel.		
W01-A06F9	Other network protocol aspects	(H04L-012)			
W01-A06G5	Network switching and interconnecting devices	(H04L-012)	These codes are intended to highlight particular devices used in networks for connection, switching, routing and repeating purposes. The codes may be used alone if of general application or in conjunction with other W01-A06 codes as appropriate.		
W01-A06G5A	Cross-connect switch	(H04L-012)			
W01-A06G5C	Gateway or bridges	(H04L-012)			
W01-A06G5E	Router	(H04L-012)	Routers were previously coded in W01 A06E1, which is still assigned for significant control aspects.		

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W01-A06G5G	Network repeaters	(H04L-012)	This code is intended to be used as a single reference for repeaters for data transmission in general, and replaces W01-A08A2 and W01-A08B1 (repeaters for baseband data transmission), which are discontinued from 2002. Network repeaters for which the baseband aspect is significant will from now on be assigned W01-A06G5G and an appropriate W01-A08 code, while for cases where broadband transmission is significant, W01-A09 codes will be used with W01-A06C5G. Repeaters for line communication in general are covered by W02-C01E codes, for radio by W02-G05C and W02-C03B codes, and for optical communication in general by W02-C04A5.		
W01-A06G5X	Other network switching and interconnecting devices	(H04L-012)			
W01-A07H2A	Bluetooth(r) radio interface	(H04L-029/10)	Novel aspects of the frequency-hopping system are also assigned W02-K05A6 and other W02-K05 codes as appropriate.		
W01-A07H2C	DECT-based radio interface	(H04L-029/10)	DECT systems for actual telephone usage are assigned W01-B05A1B and W02-C03C3 codes, with handsets covered by W01-C01D1 codes.		
W01-A07H2X	Other radio interface	(H04L-029/10)			

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W01-C01A2A	Back or edge lighting for telephone display	(H04M-001/02,23)	These topics in general are covered by W05-E05B codes.		
W01-C01A3A	Handset with movable portion	(H04M-001/02)	Includes 'folding' or 'flip' aspects, e.g. for mobile phones.		
W01-C01A3C	Handset or casing with detachable fascia or similar portion	(H04M-001/02)	This code is intended for fascias and similar parts which can be changed by the user, e.g. for customising mobile phones.		
W01-C01A3E	Handset or casing with novel shape or appearance	(H04M-001/02)	This code is intended for telephone sets or casings with unconventional shape, e.g. with some novelty or amusement aspect.		
W01-C01B1F	Rediallers	(H04M-001/26)	This code is intended for external boxes redirecting certain calls to secure more favourable tariff, and may be assigned with W01-C01B4 (for least cost routing aspects) depending on the novelty.		
W01-C01B3A	Drive circuitry	(G09G, H04M-001/56)	Circuitry aspects specific to touch screen operation are covered by W01-C01B8H, which takes precedence over this code.		
W01-C01B3C	Back lighting circuitry and control	(H04M-001/56)	Physical aspects of telephone display back- or edge-lighting, such as light sources, diffusers, etc. are covered by W01-C01A2A, and of displays in general by W05-E05B codes.		
W01-C01B3E	Novel display for dialling and user interface	(G02F, G09F, H04M-001/56)	This code is intended to highlight telephone set applications for displays the novel details of which are coded elsewhere, e.g. U14-K01 codes in the case of LCDs.		

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W01-C01B8H	Touch screen	(G06F, H04M-001/26)	Constructional aspects are also assigned W01-C01A2. This code takes precedence over W01-C01B3A (display drive circuitry). Touch screens in general are covered by T04-F02A2.		
W01-C01B8K	Special function keys per se	(G06F, H04M-001/26)	Details relating to the layout of keyboards on which special function keys or analogous controls are provided which are not themselves the novel aspect, are covered by W01-C01B8A.		
W01-C01C7A	Comfort noise generation	(H04M-001/253)			
W01-C01C7C	Novel coding scheme	(H04M-001/253)			
W01-C01C7E	Novel speech coders and decoders	(H04M-001/253)			
W01-C01C7L	Scrambling and speech coding for security	(H04K, H04M-001/253, H04M-001/68)	This code is intended for scrambling aspects within the telephone itself. Overall systems aspects of security are covered by W01-C08F1 codes. Scrambling for speech communication in general is covered by W02-L05, and secrecy aspects of data transmission by W01-A05 codes.		
W01-C01C7X	Other digital speech processing aspects	(H04M-001/253)			

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W01-C01D3G	'Third generation' mobile phone	(H04M-001/72)	This code is assigned for so-called third generation mobile phones, intended to operate in a UMTS system, and for analogous types based on similar multiple access schemes, i.e. other than TDMA alone. For inventions involving some RF novelty W02 codes are also assigned, e.g. W02-C03C1C and W02-C03C1G, along with W02-G codes. Where the novelty resides in the spread-spectrum aspect, W02-K05 codes are also assigned, e.g. W02-K05A7, as appropriate. Systems based on OFDM are assigned W02-K07C as well as W01 and W02 telephone and 'mobile radio' codes. Other W01-C01 codes are assigned with W01-C01D3G as appropriate, depending on the aspect, e.g. W01-C01G6E for connecting to the internet on a 3G phone.	Universal mobile telephone system, 3G, fourth generation, 4G	
W01-C01D3J	Dual or multi-band mobile phone	(H04M-001/72)	This code is assigned for phones capable of operating in two or more cellular bands, e.g. 900 and 1900 MHz. As such, it is likely to involve RF details and corresponding assignment of W02 codes.	GSM, PCS	

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W01-C01F1K	Automatic switching between different ringer types	(H04M-019/02)	This code is intended for arrangements switching between different types of ringer, e.g. switching from mechanical to acoustic ringing if a call is not acknowledged. Arrangements for signalling different types of incoming call, e.g. by means of different tones or tone sequences, are covered by W01-C01F1M. Facilities for inputting ringing tone sounds or musical extracts to be stored as ringing tones are covered by W01-C01F1P.		
W01-C01F1M	Signalling different incoming call types	(H04M-001/57)	Covers arrangements for signalling different types of incoming call, e.g. voice calls and text messages, by means of different tones or tone sequences. For aspects specific to SMS and similar telephones, search with W01-C01G6 codes.		
W01-C01F1P	Memory storage input for ring tone generation	(H04M-019/02)	Covers arrangements for inputting ringing tone sounds or musical extracts to be stored as ringing tones. Sampling in electronic musical instruments is covered by W04-U01C1, and sequencer arrangements in W04-U06, these codes being assigned also as appropriate for genuine novel aspects. Waveform storage for tone generation in general is covered by U23-F codes.		
W01-C01G2A	Loudspeaker telephone	(H04M-009/08)			

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W01-C01G2C	Headset telephone	(H04M-001) (W01-C01G9)	Includes 'hands-free kit' mobile phone, for which W01-C01D3C is also assigned. Telephone headset aspects were previously coded in W01-C01G9.	Handsfree	
W01-C01G6A	SMS	(H04M-011/06)	This code is intended for 'text messaging', primarily in mobile phones, for which W01-C01D3C is also assigned.	Short message service	
W01-C01G6C	Email	(H04M-011/06)	Email in general is covered by T01-N01C, which is also assigned here.		
W01-C01G6E	Internet communication	(H04M-011/06)	Search with W01-C01D3 codes for WAP phone aspects, e.g. W01-C01D3G for '3G' or '4G' handsets, and with W01-C01P1 for multimedia aspects.	i-mode	
W01-C01G6G	Data streaming and packet handling	(H04M-011/06)	This code is intended for telephones capable of data streaming and packet handling, e.g. for GPRS when used with W01-C01D3 codes.		
W01-C01G8A	Menu-driven telephone set	(H04M-001/247)	Covers telephones, especially of mobile type (W01-C01D3 codes also assigned in that case), in which particular features are accessible via a menu system, e.g. using a reduced number of keys. Special function keys themselves are covered by W01-C01B8K. Control circuitry in general for telephones is covered by W01-C01Q codes, which may also be assigned depending on novelty.		

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W01-C01G8C	Automatic selection of functions	(H04M-001/247)	Covers telephones, especially of mobile type (W01-C01D3 codes also assigned in that case), in which particular features are selected without direct action by the user, based on sensed conditions or environment.		
W01-C01L1	ISDN interface	(H04M-011)	See W01-C05B7 codes for all aspects of ISDN.		
W01-C01L3	ADSL interface	(H04M-011)	ADSL is covered by W01-C05B8A.		
W01-C01L5	Splitter arrangements, e.g. POTS/ISDN splitter	(H04M-011)			
W01-C01L7	Standard, i.e. POTS line interface	(H04M-011) (W01-C01X)			
W01-C01L9	Other network interface aspects	(H04M-011)			
W01-C01Q	General control circuitry for telephone sets	(H04M-001)	These codes are intended to cover general aspects of telephone set control and especially microprocessor-based aspects which are also assigned T01-J08A codes as appropriate. For aspects specific to menu-driven telephone sets, search with W01-C01G8A.		
W01-C01Q1	Self testing and monitoring	(H04M-001/24)	Testing of subscriber telephone using external equipment is covered by W01-C01K.		
W01-C01Q1A	Checking remaining battery capacity	(G01R-031/36, H04M-001/24)	This code is assigned with W01-C01E5B. Checking battery charge state in general is covered by S01-G06A and X16-H01.		
W01-C01Q3	Program control aspects	(G06F, H04M-001)	Program control in computer and microprocessor systems is covered by T01-F codes, which are also assigned as appropriate.		

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W01-C01Q3A	Software updating and modification	(G06F, H04M-001)	Includes arrangements for downloading or otherwise inputting data to modify the control program.		
W01-C01Q5	Sensing systems	(H04M-001)	Covers arrangements for determining particular conditions relating to the environment or usage of the telephone. Checking battery charge state is covered by W01-C01Q1A.		
W01-C01Q5A	Sensing user proximity	(G01V, H04M-001)	Covers arrangements for determining that a telephone or handset is being held by the user, e.g. by proximity sensing, to control parameters such as loudspeaker volume. This relates especially to portable telephones, in which case W01-C01D3C is also assigned. Human presence detection in general is covered by S03-C06 codes. Arrangements for determining a quiescent state, i.e. non-usage of the telephone, and switching between this and an active state, are covered by W01-C01Q7A.		
W01-C01Q5C	Sensing connection of external devices	(H04M-001)	This relates to sensing the connection of external headsets, car adaptors for portable phones, PCs, and any other equipment whose connection requires some change in the operation of the telephone set.		
W01-C01Q5X	Other sensing systems for telephone sets	(H04M-001)			
W01-C01Q7	Standby and related systems	(H04M-001)	This covers arrangements for disabling parts of a telephone, especially a portable type (with W01-C01D3C) as a power-saving measure.		

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W01-C01Q7A	Determining quiescent state	(H04M-001)	This covers arrangements for determining a quiescent state based on e.g. non-actuation of keys for a preset period.		
W01-C01Q8	Security aspects	(H04M-001/66-677)	This code is used for general security aspects of the telephone control system. SIM card aspects of mobile phones are covered by W01-C01D3D and security aspects involving dialling restrictions are covered by W01-C01B5 codes.		
W01-C01Q8A	Theft alarms	(G08B, H04M-001)	This code covers alarms warning of the possible theft, or leaving behind, of a telephone set itself, again usually of portable type (with W01-C01D3C). W05-B01 codes for theft alarms are also assigned as appropriate.		
W01-C01Q9	Other general telephone set control circuitry aspects	(H04M-001)			
W01-C02B2A	Direct-inward dialling	(H04M-003/54,58)	This code is intended for systems allowing direct dialling, e.g. by entering additional digits once a connection to an exchange is made.		
W01-C02B2C	Simultaneous or successive ringing of extensions	(H04M-003/46)	This code is intended for arrangements to ring a number of extensions until a call is answered.		

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W01-C02B2E	Call diversion	(H04M-003/54)	This code is intended for the facility by which a subscriber can set up or cancel a call diversion facility, and specify a number to which calls are to be routed. Time-dependent operation of this feature is indicated by assignment of W01-C02B2J also. Call barring is covered by W01-C02B2G.		
W01-C02B2G	Call barring	(H04M-003/54)	This code is intended for the facility by which a subscriber can set up or cancel a call barring facility. Time-dependent operation of this feature is indicated by assignment of W01-C02B2J also. Call diversion is covered by W01-C02B2E.		
W01-C02B2J	Time-dependent call handling	(H04M-003/54)	This code is intended for the facility by which a subscriber can establish time windows for operation of call handling features. It is used in conjunction with other W01-C02B2 codes as necessary.		
W01-C02B2X	Other incoming call handling functions	(H04M-003/54,58)			
W01-C02B3A	Camp-on and call-back	(H04M-003/48)			
W01-C02B3C	Caller ID transmission	(H04M-003/42, H04Q-003/72) (W01-B03C, W01-C02B9)			
W01-C02B3E	Inhibiting ongoing transmission of caller ID	(H04M-003/42, H04Q-003/72) (W01-B03C, W01-C02B9)	This code includes the use of digit sequences entered by a calling subscriber before dialling, to inhibit the caller ID feature of the exchange.	Withheld Number	

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W01-C02B6C	Denying access to telephone service based on non-entitlement	(H04M-003/38)	Includes inhibiting access using e.g. stolen mobile phone. Arrangements for inhibiting any mobile phone in a sensitive area are covered by W01-C08F5.		
W01-C02B7E	Automatic directory enquiry services	(H04M-003/42) (W01-C02B7X, W01-C05B5C)	Automatic directory enquiry services are now only also assigned W01-C05B5C for specific details of the database or similar system, for which T01-J05B codes are likely to be used as well.		
W01-C05A1	Emergency call location determination systems	(H04M-011/02,04)	See W01-B03C also for call tracing and caller ID aspects, and W02-C03C1E for mobile location determination in cellular telephone systems.	911 call, FCC	
W01-C05B4	CTI and telephone systems combined with internet system	(G06F, H04L, H04M-011) (W01-C05B3)	Prior to 2002 W01-C05B3 was routinely used to highlight computer telephony integration. Voice over data modem aspects are covered by W01-A09E3, and W01-C05B3G when specifically intended for PSTN usage. Voice over IP transmission is covered by W01-C05B4C from 2002 (previously T01-H07C5E , W01-A06B7, W01-A06F, and W01-C05B3).		
W01-C05B4A	CTI - (Computer Telephony Integration)	(G06F, H04L, H04M-011) (W01-A06, W01-C05B3)			

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W01-C05B4C	Telephony via the internet	(G06F, H04L, H04M-011) (T01-H07C5E , W01-A06B7, W01-A06F, W01-C05B3).	This code takes precedence over W01-C05B4A and is intended for telephone systems using internet protocol to transfer voice information, i.e. as a medium for telephone traffic. Arrangements for access to the internet via the telephone network for general purposes are covered by W01-C05B4E. W01-A06B7A is also assigned where novel aspects of the internet itself are involved. Computer system aspects of the internet are assigned T01-N codes also.	Voice over internet protocol, VoIP	
W01-C05B4E	Internet access via telephone system	(H04L, H04M-011)	This code is intended for arrangements for access, via the telephone system, to the internet for general purposes. Telephone systems using VoIP, i.e. using the internet as a medium for telephone traffic, are covered by W01-C05B4C. W01-A06B7A is also assigned where novel aspects of the internet itself are involved. Computer system aspects of the internet are assigned T01-N codes also.		
W01-C05B8	ADSL and other Digital subscriber line system	(H04L, H04M-011) (W01-C05B3)	Prior to 2002 ADSL was assigned W01-C05B3.	HD DSL, XDSL	
W01-C05B8A	ADSL	(H04L, H04M-011)			
W01-C06A	Least cost routing	(H04M-015)			
W01-C06C	Time control and indication	(H04M-015)			
W01-C06E	Billing	(G06F, G07F, H04M-015)			

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W01-C06G	Reduced rate and reverse charge systems	(H04M-015)			
W01-C06G1	Reduced rate charging systems	(H04M-015)	Includes arrangements for reduced rate charging band on e.g. keying in an access code with a pre-paid card. Prepayment telephones in general are covered by W01-C07A codes.		
W01-C06G5	Reverse call charging	(H04M-015)	Collect call		
W01-C06X	Other metering, time controlling and indicating aspects	(H04M-015)			
W01-C08F1	Wiretapping and prevention of wiretapping	(H04K , H04M)			
W01-C08F1A	Wiretapping	(H04K , H04M)			
W01-C08F1C	Prevention and Detection of wiretapping	(H04K , H04M)			
W01-C08F5	Controlling or preventing use of telephone	(H04K , H04M)	This code is primarily intended for systems inhibiting the use of e.g. portable phones in a sensitive area, such as a theatre, hospital etc., e.g. by 'dummy' base stations or jamming techniques. It is assigned with mobile phone system codes as appropriate, e.g. W01-B05A1A and W02-C03C1B for base station aspects. Arrangements for determining entitlement, and denying access, to different levels of telephone service are covered by W01-C02B6A and W01-C02B6C respectively.		

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W02-A05Q	Novel coupling arrangements for filters	(H01P-005) (W02-A02, W02-A05)	This code is intended to highlight novel arrangements for providing coupling between filter sections, and may be used with other W02-A05 codes denoting filter technology. Novel coupling arrangements in general for waveguide devices are covered by W02-A02 codes, which from 2002 are not used for internal filter coupling arrangements unless of wider application also.		
W02-A05Q1	Variable coupling arrangements	(H01P-005)	This code is intended for filter coupling arrangements in which the coefficient of coupling may be adjusted in normal use. Arrangements for trimming or adjusting coupling during manufacture are covered by W02-A07 codes.		
W02-A08J	Waveguides and waveguide devices using superconducting materials	(H01L-039, H01P)	This code is intended to highlight the use of superconducting materials, not novel themselves, necessarily. Novel superconducting materials are assigned U14-F and X12-D06 codes.		
W02-B01B1A	Folded dipole	(H01Q-009/261)	This code is intended for dipoles which may be regarded as a half-wavelength transmission line pair with shorted ends, or a wavelength-long conductor in the form of a flattened loop. Impedance matching aspects are indicated by additional assignment of W02-B08E1.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B01B2A	Folded ring dipole	(H01Q-009/261)	This code is intended for folded dipoles with the ends brought into proximity so as to form a ring. Impedance matching aspects are indicated by additional assignment of W02-B08E1.		
W02-B01C1G	Ground plane antenna	(H01Q-009)	This code is intended for monopole arrangements with a associated groundplane in the form of separate elements or a metallic plate, which is part of the antenna itself and not provided by the surface on which it is mounted. Discone antennas are covered by W02-B01C5 (from 2002, formerly W02-B01C and W02-B01X).		
W02-B01C3A	Quadrafilar Helix	(H01Q-011/08) (W02-B01C3, W02-B05B)	This code is intended for antennas in the form of two bifilar helical loop sections. For use with satellite telephones search with W01-C01D3E (W02-C03C1C is also assigned for this application since satellite phone systems are regarded as being of cellular type) and W02-C03B1C for application to ground stations in general in a satellite radio system. Prior to 2002, antennas of this type were assigned W02-B01C3 and W02-B05B.	QFH, spacecraft, weather, satellite, APT, HRPT, GPS	
W02-B01C5	Discone and conical-skirt monopoles	(H01Q-009/28) (W02-B01C, W02-B01X)	This code is intended for antennas in the form of a cone and monopole combination, normally employed for reasons of wideband performance. Arrangements for increasing the bandwidth of antennas in general are covered by W02-B08P3 and multi-band antennas by W02-B08R1.	Wideband, multi-octave, VHF, UHF, scanning, monitoring	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B04D1	Yagi antennas	(H01Q-019/30)		Yagi-Uda	
W02-B04D5	Quad antenna	(H01Q-019, H01Q-019/30)	This code is intended for 'quad' or 'box kite' antennas with form analogous to Yagi aeriels, i.e. driven element arranged between reflector and one or more director elements, with elements typically approximately one wavelength long in total.		
W02-B07A1A	Antenna masts and towers	(H01Q-001/12)	This code is intended for supporting masts and towers, usually dedicated to the purpose of mounting antennas. For arrangement intended to conceal masts, or make them less conspicuous, search with W02-B08P8G.		
W02-B07A1C	Antenna mounting hardware	(H01Q-001/12)	This code is intended for mounting hardware such as stub masts, clamps, etc., normally designed for fixing an antenna to an existing structure.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B07A3	PCB and surface mount antennas	(H01Q-001/38)	These codes are intended to cover antennas produced using printed circuit techniques and those intended for surface mounting on a PCB. Microstrip antennas are covered by W02-B02A, and those fabricated as a PCB without a parallel groundplane by W02-B07A3A. Antennas structurally combined with active components are also assigned W02-B08C3, which would be assigned for an antenna formed on the circuit board of a radio transceiver, for example (W02-G02 also). See V04 codes also for PCB details.	Etched circuit board, conductor, laminate, foil	
W02-B07A3A	PCB antennas	(H01Q-001/38, H05K)	This code covers antennas produced using PCB techniques, and is introduced to better distinguish between true 'waveguide' antennas such as those in microstrip form, which are covered by W02-B02A, and those fabricated as a PCB without a parallel groundplane, although both codes could be assigned for a PCB antenna operating in a genuine 'waveguide' mode. Surface mounted antennas are assigned in W02-B07A3C, which takes precedence over this code. PCB antennas are also assigned V04-Q06.	Printed antenna	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B07A3C	Surface mount antenna	(H01Q-001, H01Q-001/38, H05K)	This code is intended for an antenna designed to be surface mounted on a PCB, and takes precedence over W02-B07A3A, the code for antennas actually fabricated using PCB techniques.		
W02-B08M	Antenna materials	(H01Q)	This code is intended for novel materials with applications to antennas. It is assigned with other W02-B codes as appropriate.		
W02-B08P	Antenna improvements	(H01Q)	These codes are used to highlight some specific stated improvement in an antenna design. They are assigned in conjunction with other W02-B codes as appropriate.		
W02-B08P1	Increased gain	(H01Q)			
W02-B08P3	Increased bandwidth	(H01Q)	Antenna or antenna systems with multi-band characteristics are covered by W02-B08R1.		
W02-B08P5	Improved directivity, scattering reduction, and cross-polarisation immunity	(H01Q)	Antenna systems specifically designed for multi-directional or multiple polarisation radiation are covered by W02-B08R codes. Prior to 2002, W02-B04A was assigned for these topics when antennas using reflectors or refractors were concerned. From 2002, this topic is indicated by assignment of a relevant W02-B04 code with a W02-B08P5 code for those antenna types.		
W02-B08P5A	Improved directivity	(H01Q)			
W02-B08P5C	Improved cross-polarisation immunity	(H01Q)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B08P5E	Reduced scattering and edge effects	(H01Q)			
W02-B08P7	Improved VSWR or impedance matching	(H01Q)	See W02-B08E1 for impedance matching arrangements for antennas.		
W02-B08P8	Improved mechanical strength, durability, weather-resistance and appearance	(H01Q)	These codes are used to highlight some specific stated improvement in an antenna which is not directly linked to its RF performance.		
W02-B08P8A	Improved mechanical strength	(H01Q)			
W02-B08P8C	Improved durability	(H01Q)			
W02-B08P8E	Improved weather resistance	(H01Q)			
W02-B08P8G	Improved appearance	(H01Q)	This codes is used to highlight aesthetic aspects of antenna design, including concealment or blending in with surroundings.		
W02-B08P9	Other improvements to antenna performance	(H01Q)			
W02-B08R	Antenna or antenna systems with multi-band, multi-directional, or multiple polarisation characteristics	(H01Q)	Individual antennas for which these characteristics are inherent, e.g. wide bandwidth in the case of disccone antennas (W02-B01C5), are not routinely assigned W02-B08R codes.		
W02-B08R1	Antenna or antenna systems with multi-band characteristics	(H01Q)			
W02-B08R3	Antenna or antenna systems with multi-directional characteristics	(H01Q)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-B08R5	Antenna or antenna systems with multiple polarisation characteristics	(H01Q)	Antenna arrays with multiple polarisation radiating characteristics were coded in W02-B05B8 prior to 2002.		
W02-B10	Antenna for non-communications application	(H01Q) (W02-B09)	This code is intended to be used with any other W02-B code to indicate that an antenna is being used to launch or intercept RF energy for a purpose other than communications. For example, it will be assigned for an antenna coupling RF energy into a discharge space in plasma processing apparatus (also assigned V05-F04L, V05-F05C1 codes, and other V05-F codes as appropriate).		
W02-C03C1G	'Third generation' and analogous mobile phone system	(H04Q-007, H04B-001/707, H04B-007/26, H04J-013/04)	This code is assigned with other cellular codes as appropriate, for inventions involving the use of non-TDMA multi-access techniques, especially CDMA. Novel details of the spread spectrum aspect are also assigned W02-K05 codes, e.g. W02-K05A7, as appropriate. Systems based on other multi-access schemes, e.g. for 'Fourth generation' mobile phone systems, are also covered here with access codes assigned as appropriate, e.g. W02-K07C for OFDM.	3G, 4G	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-C03C1J	Cellular radio applications	(H04Q-007, H04B-007/26)	This code is generally used without other W02-C03C1 codes, and is intended for inventions making use of the cellular system, while not involving novel cellular aspects. It is used only when the particular application cannot be coded elsewhere, and for cases specific to e.g. alarms and remote monitoring, relevant W05-B or W05-D codes are used instead,		
W02-C03C3H	Direct mode	(H04Q-007, H04B-007/26)	This code is intended for mobile radio communication conducted directly between mobile stations, rather than via a base station, although the base station may be involved in setting up the link. When applicable to trunked radio systems W02-C03C3G is also assigned.		
W02-C03E3A	Novel algorithms for power control	(H04B-007)	Includes software aspects of power control for which T01-S codes should also be searched.		
W02-C04A7J	Dispersion compensation	(H04B-010/18) (W02-C04A7, W02-C04A7A)	This code is intended to cover apparatus or methods for the compensation of dispersion arising from e.g. optical fibre characteristics. (Previously covered in W02-C04A7 and W02-C04A7A). Optical transmission systems using signals with an inherent resistance to dispersion, e.g. solitons, are covered by W02-C04B7.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-D05C5	Internet broadcasting	(G06F, H04H, H04J, H04L) (T01-H07C5E, W01-A06B7, W02-D, W02-F10E)	See T01-N01D1A also. Interactive broadcasting aspects are covered by W02-F10E codes.		
W02-F07M	Digital image transmission	(H04N-007)	This code is intended to cover digital image transmission from a systems viewpoint, novel aspects of image coding are covered by W04-P01A codes.		
W02-F10A1	Video-on-demand system	(H04N-007/173) (W02-F05A3C)			
W02-F10A1A	Full video-on-demand system	(H04N-007/173) (W02-F05A3C)			
W02-F10A1C	Near video-on-demand system	(H04N-007/173) (W02-F05A3C)		NVOD	
W02-F10A5	TV broadcasting with interactive aspects	(H04N-007/173) (W02-F05A3C)	This code is intended for largely standard TV broadcasting or video distribution with limited interactivity, e.g. the facility to respond to questionnaires, cast votes, etc. Systems enabling fuller control over programme content are covered by W02-F10A1 codes.		
W02-F10E1	For access to internet	(G06F, H04N-007/173) (T01-H07C5E, W01-A06B7, W02-F10E)	This code is intended for internet access provided as a facility of interactive broadcasting.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-F10E3	Interactive internet broadcasting	(G06F, H04N-007/173) (T01-H07C5E, W01-A06B7, W02-F10E)	This code is intended for interactive broadcasting using the internet itself. Non-interactive internet radio is covered by W02-D05C5.		
W02-F10E5	Programme guide systems	(G06F, H04N-007/173) (T01-H07C5E, W01-A06B7, W02-F10E)	TV receiver aspects of interactive programme guides are covered by W03-A16C5E and of programme guides in general by W03-A13J.	EPG	
W02-F10H	For access to multimedia systems	(G11B, H04N-007/173) (W02-F10X, W04-K10)	Audio/video aspects of multimedia systems in general are also assigned W04-K10.		
W02-G01K	Transmitters with digital architecture	(H04B-001)	This code is intended for radio transmitters employing a digital architecture within the signal path, i.e. using DSP. See corresponding codes for transceivers and receivers also (W02-G02K and W02-G03K codes respectively).		
W02-G02K	Transmitters with digital architecture	(H04B-001/38)	This code is intended for radio transceivers employing a digital architecture within the signal path, i.e. using DSP. See corresponding codes for transmitters and receivers also (W02-G01K and W02-G03K codes respectively).		
W02-G03A8	Direct conversion and low IF receivers	(H04B-001/30)	These codes are used, in conjunction with other W02-G03 codes as necessary, to represent receivers of homodyne, synchrodyne, 'zero-IF' , or 'low-IF' type. Arrangements for suppression of offsets at the output of the mixer are also assigned W02-G03B4G.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-G03A8A	Zero-IF direct conversion receivers	(H04B-001/30)	This code is intended for direct conversion schemes in which the baseband information is centered on zero frequency.		
W02-G03A8C	Low IF receivers	(H04B-001/30)	This code is intended for direct conversion schemes in which the baseband information is centered on a low frequency, e.g. of the same order as the baseband bandwidth itself.		
W02-G03B4G	Reducing offset effects	(H04B-001/10, H04B-001/30)	This code chiefly relates to offsets arising in a direct conversion receiver, and as such is normally used with W02-G03A8 codes.		
W02-G03B6A	Rake receiver	(H04B-001/10, H04B-001/69-707)	Search with W02-K05 codes for spread spectrum aspects, especially W02-K05A7 for CDMA. Time diversity radio reception equipment is covered by W02-C03A2B which from 2002 will not be routinely assigned for rake receiver configurations.	Delay, finger	
W02-G03J1A	Application of signal strength measurement	(H04B-001) (W02-G03E, W02-G03X)	This code is intended for applications of RSSI measurements which are already available. From 2002 novel RSSI measurement circuits are covered by W02-G03J1C.		
W02-G03J1C	Novel signal strength measurement arrangements	(H04B-001) (W02-G03E, W02-G03X)	This code is intended for novel arrangements or circuits for RSSI measurement. From 2002 applications of RSSI measurement are covered by W02-G03J1A.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-G03J3	Compensation arrangements for RSSI and BER measurements	(H04B-001) (W02-G03E, W02-G03X)	This codes is intended for arrangements to compensate for the effects of external factors, such as temperature, on signal strength and signal-to-noise ratio measurements in radio receivers.		
W02-G03J5A	Application of signal-to-noise ratio or BER measurement	(H04B-001) (W02-G03E, W02-G03X)	This code is intended for applications of measurements which are already available. From 2002 novel BER measurement arrangements are covered by W02-G03J1C.		
W02-G03J5C	Novel signal-to-noise ratio or BER measurement	(H04B-001) (W02-G03E, W02-G03X)	This code is intended for novel arrangements or circuits for BER or signal-to-noise ratio measurement. From 2002 applications of these measurements are covered by W02-G03J5A		
W02-G03K	Digital and hybrid receiver architecture	(G06F, H03H-017, H04B)	This code is assigned for receivers - of signals with analogue or digital modulation - which are implemented using DSP techniques in whole or in part. The codes are used in conjunction with other W02-G03 codes as necessary where there are direct equivalents in analogue receivers, in particular for RF amplifiers, oscillators, IF stages and demodulators. Corresponding digital techniques for broadcast radio receivers are covered by W03-B07 codes and for TV receivers by W03-A11K codes.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-G03K1	Characterised by usage of DSP	(G06F, H03H-017, H04B)	These codes are used to distinguish between different levels of DSP being applied to the signal path in the receiver. As such, they do not normally represent novel digital processing aspects, which are conveyed by use of other W02-G03K codes. DSP in general is covered by T01-J08A2, T01-J08B and U22-G codes depending on specific aspects.		
W02-G03K1A	With baseband digital signal processing only	(G06F, H03H-017, H04B)	This code covers receivers with an analogue signal processing path after the conversion to baseband.		
W02-G03K1C	With baseband and IF digital signal processing only	(G06F, H03H-017, H04B)	This code covers receivers with DSP in IF, demodulator, and baseband stages.		
W02-G03K1E	With digitising of RF spectrum	(G06F, H03H-017, H04B)	This code covers receivers with digitising of the whole signal processing path, except for the possible use of analog RF amplifiers.		
W02-G03K1X	Other use of DSP	(G06F, H03H-017, H04B)			
W02-G03K3	AD conversion	(H03M)	Novel AD converters are covered by U21-A03 codes.		
W02-G03K5	Digital mixing and direct digital conversion	(G06F, H03H-017, H04B)			
W02-G03K6	Filtering	(G06F, H03H-017, H04B)	Novel digital filters are also assigned U22-G01 codes and T01-J08B when the emphasis is on computing aspects.		
W02-G03K9	Other digital receiver aspects	(G06F, H03H-017, H04B)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-H01A	RFI suppression of non-communications equipment	(H04B-015)	This code is intended to cater for the suppression of radiated RF energy from equipment whose primary function is not that of communication, e.g. electric motors, IC engine ignition systems, microwave ovens.		
W02-H01C	RFI suppression in communications equipment	(H04B-015)	This code is intended to cater for the suppression of radiated RF energy from communications equipment, e.g. transmitters, receivers, etc.		
W02-H01C1	Suppression or avoidance of interference within communications equipment	(H04B-015)	This code is intended to cater for the suppression of interference generated by one part of communications equipment with another part of the same equipment, or a group of similar units assembled together, e.g. prevention at the transmitter, of interference with an associated receiver.		
W02-H01C5	Suppression of interference caused to separate communications systems	(H04B-015)	This code is intended to cater for the suppression of radiated RF energy from equipment, especially transmitters, which could interfere with other communication systems, e.g. reducing harmonic radiation.		
W02-H01E	Suppression or avoidance of interference based on constructional features	(H04B-001, H04B-015, H05K)	Covers screening, siting of modules, etc. and thus V04-S, V04-T or V04-U codes are normally assigned also, as well as constructional details codes specific to the equipment involved.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-H01G	Suppression or avoidance of interference based on circuitry or operation	(H04B-015)	This code is intended to focus on aspects of circuit design or equipment operation (including software modifications) resulting in a reduction in the level or effect of unwanted radiated RF energy from equipment, or parts of equipment.		
W02-H01G1	Suppression or avoidance of interference based on reduction in harmonic energy	(H04B-015)			
W02-H01G3	Suppression or avoidance of interference based on energy dispersal	(H04B-015)	These codes are intended for arrangements reducing the effect of a potentially interfering signal by dispersing its energy, usually over a range of frequencies.		
W02-H01G3A	Based on use of FM	(H04B-015)	Novel frequency modulators are assigned U23-H if intended for analogue signals, U23-P01 and W01-A09A2 with W01-A09E1 if modulated by digital data.		
W02-H01G3C	Based on use of frequency hopping	(H04B-001/713, -015,)	Frequency hopping in general is covered by W02-K05A6, which is not assigned here unless specific novel aspects are to be conveyed, or more general applications are cited.		
W02-H01G3E	Based on direct sequence spectral spreading	(H04B-001/707)	Direct sequence spread spectrum systems in general, such as CDMA, are covered by W02-K05A7, which is not assigned here unless specific novel aspects are to be conveyed, or more general applications are cited.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W02-H01J	Interference avoidance based on frequency and network planning	(H04B)	This code is intended for prophylactic measures, e.g. at the network planning phase, to reduce the likelihood of interference between communications systems. Simulation systems for radio communication are assigned W02-C03E5 also.		
W03-A01B6	Direct conversion TV receiver	(H04B-001/30)	This code is used with other W03-A01B codes as appropriate to highlight receiver architectures of this type. Direct conversion communications receivers are covered by W02-G03A8 codes and broadcast receivers of this type by W03-B01A6.	Homodyne, synchrodyne, zero-IF	
W03-A08G	Field emission display	(H04N-005) (W03-A08X)	This code is intended for non-CRT field emission display arrangements for TV receivers. CRT TV displays using field emission are covered by W03-A08A codes. Novel aspects of field emission displays are covered by V05-D01C3 and other V05-D codes as appropriate.	FED	
W03-A08J	Electroluminescent display	(H04N-005) (W03-A08X)	Novel aspects of electroluminescent displays are covered by U14-J codes.	EL	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-A11K	Digital and hybrid TV receiver architecture	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	This code is assigned for receivers - of signals with analogue or digital modulation - which are implemented using DSP techniques in whole or in part. The codes are used in conjunction with other W03-A codes as necessary where there are direct equivalents in analogue receivers, in particular for RF amplifiers, oscillators, IF stages and demodulators. Corresponding digital techniques for communications and broadcast radio receivers are covered by W02-G03K and W03-B07 codes.		
W03-A11K1	Characterised by usage of DSP	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	These codes are used to distinguish between different levels of DSP being applied to the signal path in the receiver. As such, they do not normally represent novel digital processing aspects, which are conveyed by use of other W03-A11K codes. DSP in general is covered by T01-J08A2, T01-J08B and U22-G codes depending on specific aspects.		
W03-A11K1A	With baseband digital signal processing only	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	This code covers receivers with an analogue signal processing path after the conversion to baseband.		
W03-A11K1C	With baseband and IF digital signal processing only	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	This code covers receivers with DSP in IF, demodulator, and baseband stages.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-A11K1E	With digitising of RF spectrum	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	This code covers receivers with digitising of the whole signal processing path, except for the possible use of analog RF amplifiers.		
W03-A11K1X	Other use of DSP in digital TV receivers	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)			
W03-A11K3	AD conversion	(H03M)	Novel AD converters are covered by U21-A03 codes		
W03-A11K5	Digital mixing and direct digital conversion	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)		DDC	
W03-A11K6	Filtering	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)	Novel digital filters are also assigned U22-G01 codes, and T01-J08B when the emphasis is on computing aspects.		
W03-A11K9	Other digital TV receiver aspects	(G06F, H03H-017, H04N-005/46,-007/13) (W03-A11X)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-A13J	Electronic programme guide systems	(G06F, H04N-005/44) (W03-A13G, W03-A16C5E)	From 2002 this code is regarded as the main one for EPG aspects in receivers and set top boxes. See W03-A13G also for specific OSD aspects of programme guide systems in TV receivers (this code was used more generally for this topic prior to 2002). Interactive aspects of guide systems will continue to be assigned W03-A16C5E as appropriate. Systems or 'head-end' aspects are covered by W02-F10E5.		
W03-A16C5K	For access to internet	(G06F, H04L, H04N-007/173) (T01-H07C5E, W01-A06B7, W03-A16C5E)			
W03-A18A5A	Time programming with manual input	(H04N-005/44)			
W03-A18A5C	Time programming with learning function	(H04N-005/44)	This code covers automatic time programming arrangements based on learned user preferences, e.g. through monitoring of manual time programming operations or manual channel selection. For analagous arrangements for programming of video recorders (VCRs) see W04-B10C and W04-E04C7		
W03-B01A6	Direct conversion broadcast receiver	(H04B-001/30)	Direct conversion communications receivers are covered by W02-G03A8 codes and TV receivers of this type by W03-A01B6.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-B06	Receiver for digital broadcasts	(H04B-001) (W02-K07C, W03-B09)	These codes are intended for broadcast receivers of digital radio signal formats such as DAB, DRM, and analogous systems. Systems aspects of DAB are covered by W02-D05C1 and W02-K07C for the OFDM aspect. Receivers employing digital architecture - for analogue or digital broadcast reception - are covered by W03-B07 codes, which may be assigned as well for digital broadcast receivers with digital architecture.	Digital audio broadcast, digital radio monodiale, digital AM, QAM	
W03-B06A	Satellite radio broadcast receiver	(H04B-001) (W03-A16A, W03-B09)	Prior to 2002 satellite receivers were assigned W03-A16A as well as W03-B09. W03-A16A will continue to be used for satellite radio reception from 'TV' satellites, but from 2002 will not be used for 'pure' radio satellite reception. Systems aspects of satellite radio are covered by W02-D05A and satellite TV by W02-F06A.		
W03-B06C	Internet broadcast receiver	(G06F, H04B-001, H04L) (T01-H07C5E, W01-A06B7, W03-B09)	This code is intended for 'internet radio' receiving arrangements, which may be part of a receiver, accessory equipment, or wholly contained within a PC as hardware or software.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-B07	Digital and hybrid broadcast receiver architecture	(G06F, H03H-017, H04B-001) (W03-B09)	This code is assigned for receivers - of signals with analogue or digital modulation - which are implemented using DSP techniques in whole or in part. The codes are used in conjunction with other W03-B codes as necessary where there are direct equivalents in analogue receivers, in particular for RF amplifiers, oscillators, IF stages and demodulators. Corresponding digital techniques for communications and TV receivers are covered by W02-G03K and W03-A11K codes. Receivers for digital broadcasts, such as DAB, are covered by W03-B06 codes, and may also be assigned W03-B07 codes if the receiver itself employs a digital, or part digital, architecture.		
W03-B07A	Characterised by usage of DSP	(G06F, H03H-017, H04B-001) (W03-B09)	These codes are used to distinguish between different levels of DSP being applied to the signal path in the receiver. As such, they do not normally represent novel digital processing aspects, which are conveyed by use of other W03-B07 codes. DSP in general is covered by T01-J08A2, T01-J08B and U22-G codes depending on specific aspects.		
W03-B07A1	With baseband digital signal processing only	(G06F, H03H-017, H04B-001) (W03-B09)	This code covers receivers with an analogue signal processing path after the conversion to baseband.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W03-B07A3	With baseband and IF digital signal processing only	(G06F, H03H-017, H04B-001) (W03-B09)	This code covers receivers with DSP in IF, demodulator, and baseband stages.		
W03-B07A5	With digitising of RF spectrum	(G06F, H03H-017, H04B-001) (W03-B09)	This code covers receivers with digitising of the whole signal processing path, except for the possible use of analog RF amplifiers.		
W03-B07A9	Other use of DSP in digital broadcast radio receivers	(G06F, H03H-017, H04B-001) (W03-B09)			
W03-B07C	AD conversion	(H03M)	Novel AD converters are covered by U21-A03 codes		
W03-B07E	Digital mixing and direct digital conversion	(G06F, H03H-017, H04B-001) (W03-B09)	DDC		
W03-B07G	Filtering	(G06F, H03H-017, H04B-001) (W03-B09)	Novel digital filters are also assigned U22-G01 codes, and T01-J08B when the emphasis is on computing aspects.		
W03-B07X	Other digital broadcast radio receiver aspects	(G06F, H03H-017, H04B-001) (W03-B09)			
W04-C10A2	Multilayer, e.g. 'DVD player'	(G11B-007) (W04-C10A3)	This code includes multilayer optical disc player/recorders used for non-specified audio/video/data storage. Prior to 2002 digital versatile disc or digital video disc player/recorders were coded in W04-C10A3 when video storage or DVD was mentioned.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W04-E04C7	With learning function	(G11B, H04N-005/761)	This code covers automatic time programming arrangements based on learned user preferences, e.g. through monitoring of manual time programming operations or manual channel selection. For analagous arrangements for channel selection in TV receivers see W03-A18A5C.		
W04-E20M	Simultaneous playing and recording	(G11B)	Covers arrangements to allow playback of one section of carrier while recording onto another section, e.g. to allow playing from start of recorded programme before recording is finished.		
W04-G01B12	Solid state digital audio player/recorder	(G11C, H03, H04B)	MP3 player		
W04-K08	Interfacing with PC	(G06F, G11B-031)	Includes arrangements to allow control of recording equipment by PC or downloading of recorded material.		
W04-M01D8	Video camera interfacing	(H04N-005/225) (W06-M01D9)	Covers arrangements for interfacing of video cameras with video and other systems. Search with W04-K codes for specific type of interfacing.		
W04-Q01J	Projection display circuitry	(G09F, H04N-005/74)	Covers circuitry for controlling output of projection display. Includes auto-focusing and arrangements to correct distortion of image when screen is not normal to projection axis.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W04-Q01L	Direct retinal projection display	(G09F, H04N-005/74)	This code is intended for displays which directly project an image onto the retina of the viewer, and thus is likely to be in the form of a head-mounted display. For application to such displays the following codes are also assigned :W03-A08E7 for TV receiver HMD; W04-W07E1A for virtual reality HMD; and W05-E07 for HMD of general application.		
W04-V04A3	Determining identity of speaker	(G10L-015,-017)			
W04-V04A7	Non-speech audio analysis applications	(G10L)	This code is intended for the analysis and recognition of non-speech sound sources, such as musical sequences or machine noise. Application to the testing of e.g. machines, is indicated by assignment of S02 or S03 codes also.		
W04-V05G6	Comfort noise	(G10L-019)	This code covers systems introducing so-called comfort noise into a communications channel, e.g. to avoid disturbing silence periods. Systems of this type for use in telephone speech signal processing are assigned W01-C01C7A.		
W04-V10	Audio coding	(H03M, H04B-014/02, G10L, G11B)	Includes general audio encoding methods and apparatus e.g. for compression, bandwidth reduction etc.. Coding methods and apparatus specifically for speech signals are covered in W04-V05G.		
W04-V10A	Standards conversion	(H03M, H04B-014/02, G10L, G11B)	Includes sample rate conversion.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W04-V10C	Nonuniform coding	(H03M, H04B-014/02, G10L, G11B)	Includes floating point and nonuniform companding systems.		
W04-V10E	Predictive coding	(H03M, H04B-014/02, G10L, G11B)	Includes differential, adaptive and companded predictive systems.	DPCM, ADM, CVDSM, CPDM, ADPCM, NICAM, time domain	
W04-V10G	Perceptual coding	(H03M, H04B-014/02, G10L, G11B)	Covers data reduction methods which use psychoacoustic models to reduce bitrate while retaining acceptable perceived audio quality, e.g. assigning higher quantisation errors to exploit masking properties of human hearing.		
W04-V10G1	Frequency domain coding	(H03M, H04B-014/02, G10L, G11B)			
W04-V10G1A	Subband coding	(H03M, H04B-014/02, G10L, G11B)	Covers arrangements to feed input signal into filter bank for analysis and comparison with psychoacoustic model. Includes MPEG-1, Layers I and II, and Precision Adaptive Subband Coding (PASC).	filterbank	
W04-V10G1C	Transform coding	(H03M, H04B-014/02, G10L, G11B)	Covers arrangements using e.g. discrete Fourier Transform (DFT), discrete cosine transform (DCT) and modified discrete cosine transform (MDCT). Includes AC-2 and perceptual audio coding (PAC).	adaptive transform coding, ATC, dynamic bit allocation	
W04-V10G1G	Hybrid coding	(H03M, H04B-014/02, G10L, G11B)	Covers arrangements using a combination of subband and transform methods. Includes adaptive transform acoustic coding (ATRAC) and MPEG-1 Layer III.	hybrid filterbank	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W04-V10G1J	Multichannel coding	(H03M, H04B-014/02, G10L, G11B)	Covers arrangements to reduce redundancy and irrelevancy of multichannel signals in order to reduce overall bitrate. Includes AC-3 and MPEG-2 multichannel coding.		
W04-V10G7	Reducing artefacts	(H03M, H04B-014/02, G10L, G11B)	Coded in conjunction with other W04-V10G codes to indicate type of perceptual coding system. Reduction of noise and other unwanted signals for speech coding is covered by W04-V05E with an appropriate W04-V05G code.		
W04-V10G9	Other perceptual coding systems	(H03M, H04B-014/02, G10L, G11B)			
W04-X03E1A	Model aircraft	(A63H-017-030)	Includes spacecraft.		
W04-X03E1B	Model boat	(A63H-017-030)			
W04-X03E1C	Model wheeled vehicle, e.g. car, truck	(A63H-017-030)			
W04-X03E1D	Model racing track	(A63H-017-030)	Includes arrangements to drive wheeled vehicles on model road track.		
W04-X03E1E	Model train and trainset	(A63H-017-030)			
W04-X03E1M	Model vehicle used for commercial or industrial purpose	(A63H-017-030)			
W04-X03E6	Animated toys		Covers moving toys of a non-humanoid or non-vehicle form. Includes robots and virtual pets.		
W04-X03E8	Remote control	(A63H)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W04-X03G4	Disco, night club, bar, restaurant, etc.	(A63G)	Includes personal calling arrangements to facilitate human interaction.		
W05-A02A	Novel audible alerting device	(G08B-003, H04R)	This code is intended for novel audible signal generators themselves. Electroacoustic transducers are assigned V06 codes also.	Tone generator, oscillator, bell, buzzer, recorded speech, synthesised speech, explosive device	
W05-A02C	Alerting system using audible indication	(G08B-003)	This code is intended for systems characterised by the use of audible alerting in which the means of producing the signal is not novel. For example, it may be used to indicate that a warning system employs audible signalling, the means of producing it being unspecified or unimportant.		
W05-A03C	Using display devices	(G02F, G08B-005, G09F, G09G) (W05-A03X)	This code takes precedence over other W05-A03 codes and is intended for arrangements using displays, e.g. in matrix or seven-segment form. W05-A03A may be assigned as well where the alerting novelty involves backlighting, in which case W05-E05B codes are also used. Novel displays themselves are also assigned W05-A03E, and codes from other classes as appropriate, e.g. U14-K01 codes for LCDs.		
W05-A03C1	Using self-luminous display devices	(G02F, G08B-005, G09F, G09G) (W05-A03A, W05-A03X)	This code takes precedence over W05-A03A and is intended for arrangements using displays which are light emitting, e.g. those using LEDs.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-A03E	Novel visual indication device	(G08B-005)	This code is used with other W05-A03 codes as appropriate to indicate that a visual indicator is itself novel.		
W05-A04A	Alerting with audible and visible indication	(G08B-007)	This code is intended for alerting systems in which audible and visible signalling are used together. Arrangements in which these modes are employed separately are covered by W05-A02 and W05-A03 codes.	Simultaneous audible/visible signalling	
W05-A04C	Order telegraphs and menu-based signalling	(G08B-009)	This code is used for signalling systems in which selection from a number of options is transmitted. It includes 'ship's telegraphs', for which W06-C01B codes are assigned, e.g. W06-C01B7, and also arrangements in e.g. a restaurant for transmitting orders. Where a radio link is involved W05-A05A is also assigned, along with W02 codes as necessary, for novel 'RF' details.		
W05-A05C1A	Receiver details	(G08B-003,005, H04B-001)	Covers details of pager itself. Used alone or in conjunction with W05-A05C1E for constructional details. See W02-G03 and W02-C03C for RF aspects. Vibrators for silent alerting are also assigned W05-A01A1.		
W05-A05C1C	Constructional details	(G08B-003,005, H04B-001, H05K)	Constructional details of electronic equipment in general are assigned V04-S or V04-T codes, which are used here in addition as appropriate.		
W05-A05C1E	Paging centre details	(G08B-003,005, H04B)	This code may be used with W05-A05C1E for constructional details. See W02 codes for RF aspects.	Transmitters, aerials, control desks	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-B01A5A	Detecting separation of child or supervised person	(G08B-13/00,22-26, G08B-021/22)	This code is used either alone, or with W05-B01A5B in the case of transponder-based systems, and may be applied to the monitoring of a single person or a group such as children on a school trip, in which case W04-W codes are also assigned.		
W05-B01A5B	Transponder-based systems	(G08B-13/00,22-26, H04B-001/59)	This code is normally used with W05-B01A5A or W05-B01A5C, depending on the nature of the protection involved. Transponder-based systems for determining presence or for recognition in general are covered by W06-A04B codes, e.g. W06-A04B5 codes for object and human identification, and W02-G05 codes. From 2002, these W02 and W06 codes are not normally assigned for protection systems of the W05-B01A5 type unless specific 'RF' novelty is involved. Transponder-based remote measurement and control systems are covered by W05-D08G (from 2002 - formerly W05-D04G).		
W05-B01A5C	Protected object theft detection and separation alarms	(G08B-13/00,22-26)	This code is used either alone, or with W05-B01A5B in the case of transponder-based systems, and concerns monitoring to determine that an item to be protected is within a desired range of an individual or specified point. Analogous systems for protection of a person or a group of people are covered by W05-B01A5A.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-B01B1	Mechanically-actuated intrusion alarms	(G08B-013/08-12)	Covers intruder and burglar alarms.		
W05-B01B2	Mechanically-actuated theft alarms	(G08B-013/14)	Covers theft alarms triggered by lifting of articles, or similar.		
W05-B01C1A	Ultrasonically-actuated intrusion alarms	(G08B-013/16)	Covers intruder and burglar alarms involving ultrasonic sensing.		
W05-B01C1B	Ultrasonically-actuated theft alarms	(G08B-013/16)	Covers theft alarms involving ultrasonic sensing.		
W05-B01C2A	Optically-actuated intrusion alarms	(G08B-013/18-193)	Covers intruder and burglar alarms involving optical sensing.		
W05-B01C2B	Optically-actuated theft alarms	(G08B-013/18-193)	Covers theft alarms involving optical sensing.		
W05-B01D1	Scaring thief or attacker	(G08B-015)	This code covers the use of dyes to stain currency, gas or similar for incapacitation, and arrangements for trapping criminals, e.g. in a bank or cash machine lobby. Other codes which may also be assigned include T05-D codes for entry/exit registers, access control and automatic road blocks, T05-L05A for strongboxes, and T05-L03 codes for ATMs. Anti-mugging alarms for public use are covered by W05-B01D5.	Dye, smoke, trigger	
W05-B01D5	Personal defence alarms	(G08B-015)	This code includes arrangements for deterring an assailant and attracting attention, normally using acoustic signalling, for which W05-A02 codes are assigned as appropriate. Arrangements for self defence in a military or law enforcement context are covered by W07-F01A.	Siren, whistle, spray	

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-B05B5	Using internet	(G08B-025/08, H04L-12/28) (W01-A06B7, W05-B05B3, W05-B05B9)	This code covers the use of the internet as an alarm signal transmission medium. As such, 'internet' codes in W01-A06B7 are not normally used, unless some novel aspect from a data communications viewpoint is involved.		
W05-B05G	Using telephone transmission	(G08B-025/08)	This code and its subdivisions cover all aspects of telephone network transmission of alarm signals and from 2002 are used for this topic in place of W05-B05B2 or W05-B05B3 as appropriate. The breakdown of the codes is based on that used for telemetry and telecontrol signal transmission medium, as represented by W05-D06G codes. In the event that an invention concerns both alarm signal transmission and telemetry or telecontrol aspects, W05-D06G codes will be used in preference. From 2002, pure applications of telephone networks to alarm signal transmission are not covered in W01 (e.g. W01-C05A) or W02, these codes now being used only in cases of genuine 'communications' novelty.		
W05-B05G1	Landline	(G08B-025/08) (W05-B05B3)			
W05-B05G5	Radio telephone	(G08B-025/10) (W05-B05B4)			
W05-B05G5A	Cordless telephone transmission	(G08B-025/10) (W05-B05B2)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-B05G5C	Cellular telephone transmission	(G08B-025/10) (W05-B05B2)	This code is intended for cellular systems of the 'TDMA' kind, especially GSM. Alarm signal transmission over UMTS or similar networks is assigned W05-B05B3G, which takes precedence.		
W05-B05G5G	UMTS transmission	(G08B-025/10) (W05-B05B2)	This code is intended for alarm signalling over a 'third generation' or similar network, such as '4G', and takes precedence over W05-B05B3E which is intended for use of cellular systems of the 'TDMA' kind, especially GSM. Novel multiple access aspects are highlighted by assignment of W02-K05 codes, especially W02-K05A7 for CDMA, and W02-K07C for OFDM.		
W05-B05G5J	WLL transmission	(G08B-025/10) (W05-B05B2)	This code is intended for alarm signalling over a fixed radio telephone link of 'wireless local loop' or similar type. Novel details of the radio system are highlighted by additional assignment of W02-C03D codes for the 'point-to-point' aspect.		
W05-B05G5X	Other telephone network alarm signal transmission	(G08B-025/08,10)			
W05-C01C	Self testing systems	(G08B-029)	Includes arrangements for testing on switch-on or start-up. Self-testing sensors are also assigned W05-C01A.		
W05-D02A	Time division	(G08C-015/06, H04L-005/22-26, H04J)			
W05-D02A1	TDMA	(G08C-015/06, H04L-005)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D02C	Frequency division	(G08C-015/02)			
W05-D02E	Spread spectrum	(G08C-015/00, H04B-001/69-713, H04J-013/00-06)	Transmission of measurement and control signals via UMTS is assigned W05-D06G5G, and as an inherent SS system is not assigned W05-D02E codes. Spread spectrum communication in general is assigned W02-K05 codes. For transmission systems for measurement or control W02-K05 codes are only assigned for actual novelty in the spread spectrum aspect.		
W05-D02E1	Hybrid spread spectrum system	(G08C-015/00, H04B-001/69-713, H04J-013/00-06)			
W05-D02E6	Frequency hopping spread spectrum	(G08C-015/00, H04B-001/69-713, H04J-013/06)			
W05-D02E7	Direct sequence spread spectrum	(G08C-015/00, H04B-001/707, H04J-013/04)			
W05-D02E9	Other spread spectrum type	(G08C-015/00, H04B-001/69-713, H04J-013/00-06)			
W05-D02X	Other multiplex and multiple access systems	(G08C-015, H04J)			
W05-D05A	Based on error detection or correction	(G08C-025, H03M-013)	See U21-A06 for digital signal error detection in general and W01-A01B codes for specific application to data transmission.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06	Transmission medium	(G08C-017,019,023)	<p>The codes in this subgroup are intended to allow the transmission medium for remote measurement or control signals to be separately highlighted, and replace the codes previously used which related to media in W05-D03 and W05-D04. To specify telemetry, telecontrol, or mode, W05-D08 codes are assigned as well as appropriate. W01 or W02 codes are also assigned as necessary to highlight particular novel aspects from a communications viewpoint, but W05-D06 codes are used without W01 or W02 where there is no specific novelty in the communication system or equipment. Note that part of the code structure below (W05-D06G codes in particular) is also used to define telephone network signalling for 'central station' type alarms (W05-B05G codes). In the event that an invention concerns both telemetry or telecontrol and alarm signal transmission aspects, W05-D06G codes will be used in preference.</p>		
W05-D06A	Non-contact transmission media	(G08C-017,023) (W05-D04)	<p>These codes are intended to include 'wireless' or 'cordless' transmission systems, and thus encompass free-space optical, radio, and similar technologies.</p>		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06A1	Radio and near-field	(G08C-017, H04B-007, H04B-005/00-06)	Includes RF or near field systems using electric, or more commonly, magnetic field transfer as used for rotary couplings, 'smart card' or 'tag' type coupling where ends of link can be separated by variable (short) distance.		
W05-D06A1A	Radio	(G08C-017/02, H04B-007) (W05-D04A)	This code is mainly intended for dedicated radio systems - those involving transmission over radio telephone networks are covered by W05-D06G5 codes, which take precedence over this code. Radio systems in general are covered by W02-C03 codes, and radio equipment by W02-G codes, which are also assigned for novel aspects.		
W05-D06A1B	Near-field	(G08C-017, H04B-005/00-06) (W02-C02, W05-D03X, W05-D04)	Near-field systems in general are covered by W02-C02 codes, which are also assigned for novel aspects. This code is intended for near-field communication without a mechanical connection, i.e. it does not include capacitive or inductive couplings, e.g. of rotary type, which are covered by W05-D06T codes.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06A3	Free space optical	(G08C-023, H04B-010) (W05-D04B3)	Optical fibre and light guide systems involving a mechanical connection are covered by W05-D06C. Novel optical communication system aspects are represented by W02-C04 codes, especially W02-C04B2 codes for free-space transmission, these being also assigned where application to other systems as well as remote control or monitoring are indicated.		
W05-D06A5	Sonic or ultrasonic link	(G08C-023, H04B-011) (W05-D04C)	Systems involving sonic or ultrasonic transmission with a mechanical connection are covered by W05-D06M codes. Sonic or ultrasonic communication in general is covered by W02-C07 codes.		
W05-D06C	Optical fibre and light guide system	(G08C-023, H04B-010) (W05-D04B1)	Free space optical transmission is covered by W05-D06A3. Novel optical communication system aspects are represented by W02-C04 codes, especially W02-C04B1 codes for fibre-based transmission, these being also assigned where application to other systems as well as remote control or monitoring are indicated.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06E	Internet	(G08C-019, H04M-011, H04L-012/28) (W01-A06B7)	This code covers the use of the internet as a measurement or control signal transmission medium. As such, 'internet' codes in W01-A06B7 are not normally used, unless some novel aspect from a data communications viewpoint is involved. T01-N codes may be assigned for 'computing' aspects also.		
W05-D06G	Telephone	(G08C-019, H04M-011) (W01-C05B3E, W01-C05B3F)	In addition to the previously used codes indicated below, W01-C05B3E or W01-C05B3F were routinely assigned depending on the remote control or remote monitoring aspect. Where some novel aspect of the telephone system itself is involved these W01 codes will also be assigned.		
W05-D06G1	Landline	(G08C-019, H04M-011) (W05-D03C)			
W05-D06G5	Radio telephone	(G08C, H04M-011, H04Q-007) (W01-B05A1, W02-C03)			
W05-D06G5A	Cordless telephone transmission	(G08C, H04M-011, H04Q-007) (W01-B05A1B, W02-C03C3)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06G5C	Cellular telephone transmission	(G08C, H04M-011, H04Q-007) (W01-B05A1A, W02-C03C1)	Use of '3G' or similar non-TDMA mobile telephone systems is covered by W05-D06G5G, which takes precedence.		
W05-D06G5G	Third-generation (3G) mobile phone system	(G08C, H04M-011, H04Q-007)	This code takes precedence over W05-D06G5C and is intended for measurement or control signalling over a 'third generation' or similar network, such as '4G', and takes precedence over W05-D06G5C which is intended for use of cellular systems of the 'TDMA' kind, especially GSM. Applications of spread spectrum communications to transmission of measurement and control signals in general are assigned W05-D02E codes. Novel multiple access aspects are highlighted by assignment of W02-K05 codes for spread spectrum, especially W02-K05A7 for CDMA, and W02-K07C for OFDM.		
W05-D06G5J	WLL and fixed access systems	(G08C, H04B-007, H04Q-007) (W01-B05A1G, W02-C03D)	This code is intended for measurement or control signalling over a fixed radio telephone link of 'wireless local loop' or similar type. Novel details of the radio system are highlighted by additional assignment of W02-C03D codes for the 'point-to-point' aspect.		
W05-D06G5X	Other telephone network measurement or control signal transmission	(G08C, H04M-011)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D06M	Pneumatic, hydraulic, mechanical	(G08C-023) (W05-D04D)	Systems involving sonic or ultrasonic transmission without a mechanical connection, e.g. via the air, are covered by W05-D06A5.		
W05-D06M1	Mud pulse telemetry	(G08C-023) (W05-D04D1)			
W05-D06P	Power line communication	(G08C-019) (W05-D03D)			
W05-D06R	Dedicated wired system	(G08C-019) (W05-D03E)			
W05-D06T	Inductive or capacitive coupling	(G08C-019) (W05-D03X, W05-D04)	These codes are intended for mechanically-associated inductive or capacitive coupling, e.g. of rotary type between fixed and moving parts of a machine. Arrangements using near-field transmission without mechanical association, i.e. in a 'cordless' sense, are covered by W05-D06A1B.		
W05-D06T1	Inductive coupling	(G08C-019) (W05-D03X, W05-D04)	Search with V02 codes for specific novel aspects, e.g. V02-F02D for rotary transformers.		
W05-D06T5	Capacitive coupling	(G08C-019) (W05-D03X, W05-D04)			
W05-D06X	Other medium	(G08C-017,019,23)			

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D08	Function and mode	(G08C)	These codes are intended to indicate, irrespective of transmission medium or application (respectively conveyed by use of W05-D06 and W05-D07 codes) the purpose of the system in terms of remote control or remote monitoring. They are also used to flag an analogue system, on the basis that the majority of inventions are likely to relate to switching or digital transmission, signal format and that transponders are involved.		
W05-D08A	Analogue system	(G08C)			
W05-D08C	Remote control	(G08C)	Prior to 2002, see W05-D04A1 for radio-based remote control and W05-D04B5 for optical systems.		
W05-D08C1	Remote control and monitoring	(G08C)	This code takes precedence over W05-D08E when transmission of telecontrol and telemetry signals are involved.		
W05-D08E	Remote monitoring	(G08C)	For systems involving transmission of both telecontrol and telemetry signals, W05-D08C1 takes precedence over W05-D08E. Prior to 2002, see W05-D04A5 for radio-based remote monitoring and W05-D04B7 for optical systems.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W05-D08G	Using transponders	(G08C-017,023, H04B-001/59) (W05-D04G)	RF transponder-based systems in general are assigned W02-G05 codes, which are also used here for novel aspects of radio-based systems. Transponder systems for identification purposes are assigned W06-A04B for radio signal systems, W06-A05B for sonar-type systems, and W06-A06B for optical systems.		
W05-D08J	Novel signal format or protocol	(G08C, H03M, H04L)	This code is intended to highlight that the nature of signals used in a telemetry or telecontrol system is novel in some way. These aspects could include novelty in waveforms, voltage levels, modulation, protocols or the like, and are further highlighted by the assignment of codes in e.g. U21 or W01 as appropriate where their use conveys additional information. Systems involving multiplex and multiple access schemes are covered by W05-D02 codes, and signal coding for security by W05-D05B. W05-D08J will not normally be assigned for these cases unless a specific signal format or protocol novelty exists.		
W05-D08X	Other function or mode aspects	(G08C)			
W05-E03A	Advertising displays	(G09F-011,013)	These codes are assigned when some novelty in the actual means of presentation itself, is involved.		
W05-E03A1	Static illuminated signs and billboards	(G09F-013)			

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W05-E03A3	Signs and billboards with moving parts	(G09F-013, -019, -021)	Covers arrangements for bringing a different advertisement into view and for moving part of an advertisement, e.g. animation.		
W05-E03A5	Addressable or switchable advertising displays	(G09F-013, G09G)	These codes cover displays, generally using switched light sources or addressable back-lit elements, without physical movement of the display itself being involved. Codes specific to the display technology or elements involved are assigned as necessary from e.g. U12, U14, V05, or X26.		
W05-E03A5A	With separately controllable or addressable display elements	(G09F-013, G09G)	This code covers displays with some electrically controllable or addressable aspect, e.g. to allow the appearance of limited movement of a portion of the display. W05-E03A5C takes precedence for matrix-type displays of video type in which there is no restriction on the information presented.		
W05-E03A5C	Novel matrix-type display for advertising	(G09F-013, G09G)	This code takes precedence over W05-E03A5A and covers novel aspects of displays of video or analogous type allowing all display points in a matrix to be addressed as desired.		
W05-E03A5E	Video advertising using standard display	(G09F-013, G09G, H04N)	This code includes the use of standard video terminals, of 'TV set' or 'VDU' type arranged to present advertising messages, e.g. to persons in a queue or similar situation in a public area.		

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W05-E05A7	Advertising displays involving synchronisation with movement of an observer	(G03B, G09F-013, G09G, H04N)	This code includes arrangements for presenting sequences of video or film type images so as to be viewable by an observer in a vehicle, e.g. a passenger on a train. Systems based on cine film or analogous methods are also assigned S06-B codes (e.g. S06-B05), and those using video projection are also assigned W04-Q01 codes.		
W05E03A9	Other advertng display aspects	(G09F)			
W05-E03C	TV advertising	(G09F, H04N)	This code covers novel aspects of the creation and transmission of television advertising. For systems checking that commercial messages are actually transmitted, e.g. at a designated time, see W02-F04C5.		
W05-E03E	Internet advertising	(G06F, G09F)	Novel aspects of internet communication are covered by W01-A06B7 codes as appropriate, and internet advertising applications in general by T01-N01A2C.		
W05-E03G	Telephone network advertising	(G09F, H04M-011)	This code covers text-based and similar systems involving visual presentation, and does not include purely audio messages.		
W05-E05B1	Back lighting	(G09F)			
W05-E05B3	Edge lighting	(G09F)			
W05-E05B5	Diffusers and light source filters	(F21V, G02B)			
W05-E05B7	Novel light sources	(H01J, H01K, H05B)	This code will normally be used with a code specific to the light source itself, e.g. in X26.		

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W05-E05B9	Other back lighting and analogous system details	(G09F)			
W05-E08	Display technologies not covered elsewhere	(G09F)	This code is intended for electrical displays not covered elsewhere, and is normally used with codes from other sections as appropriate, e.g. with S06-A codes for electrophotographic displays. Specific display technologies such as EL, LED, LCD, PDP, CRT are not included, and are covered in U12, U14, or V05 as appropriate.		
W06-A03A5A	Differential GPS				
W06-A03A5C	Absolute position determination		Includes use of GPS purely as a navigation tool.		
W06-A03A5E	Position determination for secondary purpose		Includes use of GPS position information for control of e.g. setting up of television channels, local information services accessing, etc., without necessarily presenting the geographical information to the equipment user.		
W06-A03A5G	Use of GPS as a time standard				
W06-A03A5J	Use of GPS as a frequency standard				
W06-A03A5R	Novel GPS receiver		Includes novel hand-held or vehicle-borne GPS receiver.		
W06-A03A5X	Other GPS applications				
W06-A04B5A	Livestock		See also X25-N02 for monitoring livestock.		
W06-A04B5C	People		For monitoring/identifying people.		

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W06-A04B5E	Workpieces		For monitoring industrial workpieces such as bottles on production line. See also T05-G02B1A for systems interrogating transponders attached to workpieces.		
W06-A05C8	Sonar Jamming/ Anti-Jamming		Includes equipment and methods.		
W06-A05C9	Other sonar equipment details				
W06-A05H	Sonar systems and applications				
W06-A05H1	Vehicle applications				
W06-A05H1A	Land vehicles	Also see X22 codes for further vehicle details.			
W06-A05H1B	Aircraft				
W06-A05H1C	Ships		See W02-C07 for hydrophone systems. See W06-C01B1 and X25-N02 for fish locating equipment used in commercial fishing.	Depth measurement, fish finding equipment	
W06-A05H1K	Anticollision		Can be used in conjunction with above W06-A05H1 codes. Search with X22-J05B for motor vehicle anticollision systems.	Anticollision	
W06-A05H5	Tracking, target seeking			Contact/target detection and classification, echo detection	
W06-A05H8	Industrial sonar systems				
W06-A05H9	Other sonar applications				
W06-A06H	Non radio e.m. wave, e.g. light, system applications				
W06-A06H1	Vehicle applications				

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
W06-A06H1A	Land vehicles		Also see X22 codes for further vehicle details.		
W06-A06H1B	Aircraft				
W06-A06H1C	Ships				
W06-A06H1K	Anticollision		Can be used in conjunction with above W06-A06H1 codes. Search with X22-J05C for motor vehicle anticollision systems.	Anticollision	
W06-A06H5	Tracking, target seeking		See also W07-A01C for missile heat seeking system.	Target detection, tracking, optical, IR, heat seeking	
W06-A06H8	Industrial non-radio e.m. wave systems		Includes detecting presence of e.g. bottles to be filled on production line.		
W06-A06H9	Other non-radio e.m. wave, e.g. light, systems				
W06-B01B3	Head-up displays/head mounted displays		Includes displays built into pilots helmet or goggles. See X27-A02B1A for electrical aspects of helmets and goggles.		
W06-B03F	Navigation and position control	G05D-001/04,08	Includes attitude control of satellite or space craft. See also T06-B01 codes for position, attitude and altitude control.	Attitude control, navigation	
W06-B03H	Electrical installations	B64G, H01R, H01G	Includes connectors, fittings and wiring.	Electrical systems	
W06-C08	Marine vessel manufacture	B63B	Includes electrical aspects of ship manufacture.	Shipbuilding	
W07-A01C1	Laser targeting		Includes use of laser to mark target so that missile can home in on target using reflected light. Use of laser beam containing positional information about target, see W07-A01E1 only.	Laser marking, laser pointing, target designation	

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W07-A01H	Missile stability/flight control		Includes control of fins e.g. to stabilise missile flight, control missile rotation or act as air brake to control missile range. For course correction see other W07A01 codes.		
W07-E07	Laser weapons		See V08 for novel laser details.		
W07-E09	Other electrically operated weapons				
W07-F04	Early warning systems		Includes early detection of incoming missiles.		
W07-X01	Military vehicle systems		Includes electric equipment specifically for military vehicle. See also X22 if the electrical aspect relates to normal vehicle operation, e.g. ignition system, lighting, steering, braking.	Tank, personnel carrier	