CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H04 ELECTRIC COMMUNICATION TECHNIQUE

(NOTE omitted)

H04J MULTIPLEX COMMUNICATION (transmission in general H04B; peculiar to transmission of digital information H04L 5/00; systems for the simultaneous or sequential transmission of more than one television signal H04N 7/08; in exchanges H04Q 11/00; stereophonic systems H04S)

NOTE

This subclass covers

- circuits or apparatus for combining or dividing signals for the purpose of transmitting them simultaneously or sequentially over the same transmission path;
- monitoring arrangements therefor.

WARNING

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 **Frequency-division multiplex systems** (H04J 14/00 takes precedence)

1/02 . Details

1/04 . . Frequency-transposition arrangements {(modulation with carrier or side-band suppression H03C 1/52, H03C 1/60; single-band suppression H04B 1/00, H04B 15/00; telegraphic communication H04L 27/02, H04L 25/49; transference of modulation from one carrier to another, e.g. frequency- changing H03D 7/00; demodulation or transference of modulation of modulated electromagnetic waves H03D 9/00)}

1/045 . . . {Filters applied to frequency transposition}

1/05 . . . using digital techniques

1/06 . . Arrangements for supplying the carrier waves {Arrangements for supplying synchronisation signals (carrier supply H04L 5/10; frequency multiplication H03B 19/00, H03B 21/00; mixing H03D 7/00, H03D 9/00; synchronisation in general H03B)}

1/065 . . . {Synchronisation of carrier sources at the receiving station with the carrier source at the transmitting station}

1/08 . . Arrangements for combining channels {(branching filters H01P 1/213, H03H 7/46)}

1/085 . . . {Terminal station; Combined modulator and demodulator circuits}

1/10 . . Intermediate station arrangements, e.g. for branching, for tapping-off {(repeater circuits H04B 3/36, H04B 3/58; two-way amplifiers H03F 3/62)}

1/12 . . Arrangements for reducing cross-talk between channels {(in line transmission systems H04B 3/32; in cables or lines H04B 3/26 - H04B 3/30)}

1/14 . . Arrangements providing for calling or supervisory signals

1/16 . . Monitoring arrangements {(for transmission in general H04B 17/00; for amplifiers H03F 1/52, H03F 1/523)}

1/18 . in which all the carriers are amplitude-modulated (H04J 1/02 takes precedence {in telephony H04Q 11/02, H04Q 11/023; in stereophony H04H; in telegraphy H04L 5/06; in telemetry G08C 15/02, G08C 15/04})

1/20 . in which at least one carrier is angle-modulated (H04J 1/02 takes precedence; FM without multiplex H04B 1/00, H04B 14/006, H04B 15/00; PSK H04L 5/12; impulse-modulation without multiplex H04B 14/02; time-division multiplexing for data transmission H04L 5/22; telemetry G08C 15/06 - G08C 15/12; telephony H04Q 11/00, H04Q 11/04, H04Q 11/0407)

3/00 **Time-division multiplex systems** (H04J 14/00 takes precedence; relay systems H04B 7/14; selecting techniques H04Q)

3/02 . Details (electronic switching or gating H03K 17/00)

3/025 . . {Filter arrangements (H04J 3/08 takes precedence; filters per se H03H 7/00, H03H 9/00)}

3/04 . . Distributors combined with modulators or demodulators {(pulse distributors in general H03K 5/15; pulse counters H03K 21/00 - H03K 29/06; for telegraphy H04L 5/22, H04L 13/00 - H04L 23/00, H04L 25/45; for telephony H04Q 11/04)}

3/042 . . . {Distributors with electron or gas discharge tubes}

3/045 . . . {Distributors with CRT}

3/047 . . . {Distributors with transistors or integrated circuits}

3/06 . . Synchronising arrangements {(for television systems H04N 5/04; bit-synchronisation H04L 7/00)}

3/0602 . . . {Systems characterised by the synchronising information used}
3/0605 . . . . {Special codes used as synchronising signal}
3/0608 . . . . . {Detectors therefor, e.g. correlators, state machines}
3/0611 . . . . . {PN codes (H04J 3/0608 takes precedence)}
3/0614 . . . . {the synchronising signal being characterised by the amplitude, duration or polarity}
3/0617 . . . . {the synchronising signal being characterised by the frequency or phase}
3/062 . . . {Synchronisation of signals having the same nominal but fluctuating bit rates, e.g. using buffers (pulse-stuffing H04J 3/07; asynchronous-synchronous conversion H04L 5/24; speed conversion H04L 25/05; speed conversion in computers G06F 5/06)}
3/0623 . . . . {Synchronous multiplexing systems, e.g. synchronous digital hierarchy/ synchronous optical network (SDH/SONET), synchronisation with a pointer process}
3/0626 . . . . {plesiochronous multiplexing systems, e.g. plesiochronous digital hierarchy [PDH], jitter attenuators}
3/0629 . . . . . {in a network, e.g. in combination with switching or multiplexing, slip buffers}
3/0632 . . . . {Synchronisation of packets and cells, e.g. transmission of voice via a packet network, circuit emulation service [CES] (queuing arrangements in packet switching elements H04L 49/90; synchronising systems for the synchronous transmission of a pulse code modulated video signal with one or more other pulse code modulated signals H04N 7/56)}
3/0635 . . . {Clock or time synchronisation in a network (timer in protocols H04L 69/28)}
3/0638 . . . . {Clock or time synchronisation among nodes; Internode synchronisation (synchronization for ring networks H04L 12/422; data switching networks with synchronous transmission H04L 12/43)}
3/0641 . . . . . {Change of the master or reference, e.g. take-over or failure of the master}
3/0644 . . . . . {External master-clock}
3/0647 . . . . . {Synchronisation among TDM nodes}
3/065 . . . . . {using timestamps}
3/0652 . . . . . {Synchronisation among time division multiple access [TDMA] nodes, e.g. time triggered protocol [TTP] (bus network with centralized control in which slots are of a TDMA packet structure H04L 12/4035)}
3/0655 . . . . . {using timestamps}
3/0658 . . . . . {Clock or time synchronisation among packet nodes}
3/0661 . . . . . {using timestamps}
3/0664 . . . . . {unidirectional timestamps}
3/0667 . . . . . {Bidirectional timestamps, e.g. NTP or PTP for compensation of clock drift and for compensation of propagation delays (arrangements for monitoring round trip delays in packet switching networks H04L 43/0864)}
3/067 . . . . . {Details of the timestamp structure}
3/0673 . . . . . {using intermediate nodes, e.g. modification of a received timestamp before further transmission to the next packet node, e.g. including internal delay time or residence time into the packet}
3/0676 . . . . {Mutual}
3/0679 . . . . {by determining clock distribution path in a network}
3/0682 . . . . {by delay compensation, e.g. by compensation of propagation delay or variations thereof, by ranging}
3/0685 . . . . {Clock or time synchronisation in a node; Intranode synchronisation}
3/0688 . . . . . {Change of the master or reference, e.g. take-over or failure of the master}
3/0691 . . . . . {Synchronisation in a TDM node}
3/0694 . . . . . {Synchronisation in a TDMA node, e.g. TTP}
3/0697 . . . . . {Synchronisation in a packet node}
3/07 . . . using pulse stuffing for systems with different or fluctuating information rates {or bit rates}
3/073 . . . . {Bit stuffing, e.g. PDH}
3/076 . . . . {Bit and byte stuffing, e.g. SDH/PDH desynchronisers, bit-leaking}
3/08 . . Intermediate station arrangements, e.g. for branching, for tapping-off
3/085 . . . {for ring networks, e.g. SDH/SONET rings, self-healing rings, meashed SDH/SONET networks}
3/10 . . Arrangements for reducing cross-talk between channels
3/12 . . Arrangements providing for calling or supervisory signals
3/125 . . . {One of the channel pulses or the synchronisation pulse is also used for transmitting monitoring or supervisory signals}
3/14 . . Monitoring arrangements {(for SDH/SONET rings H04J 3/085)}
3/16 . in which the time allocation to individual channels within a transmission cycle is variable, e.g. to accommodate varying complexity of signals, to vary number of channels transmitted (H04J 3/17, H04J 3/24 take precedence)
3/1605 . . {Fixed allocated frame structures}
3/1611 . . . {Synchronous digital hierarchy [SDH] or SONET (H04J 3/1664 takes precedence for interactions with OTN)}
3/1617 . . . . {carrying packets or ATM cells}
3/1623 . . . {Plesiochronous digital hierarchy [PDH]}
3/1629 . . . . {Format building algorithm}
3/1635 . . . . {Format conversion, e.g. CEPT/US}
3/1641 . . . . {Hierarchical systems}
3/1647 . . . . {Subrate or multislot multiplexing}
3/1652 . . . {Optical Transport Network [OTN]}
3/1658 . . . . {carrying packets or ATM cells; (H04J 3/1664 takes precedence for payloads with different packet types)}
3/1664 . . . . {carrying hybrid payloads, e.g. different types of packets or carrying frames and packets in the paylaod}
3/167 . . . . {interaction with SDH/SONET, e.g. carrying SDH/SONET frames, interfacing with SDH/ SONET (H04J 3/1664 takes precedence)}

3/1676 . . {Time-division multiplex with pulse-position, pulse-interval, or pulse-width modulation}
3/1682 . . {Allocation of channels according to the instantaneous demands of the users, e.g. concentrated multiplexers, statistical multiplexers}
3/1688 . . . {the demands of the users being taken into account after redundancy removal, e.g. by predictive coding, by variable sampling (reducing bandwidth of signals in general H04B 1/66; in PCM-systems H04B 14/046; removal of redundancy in telegraph communication H03M 7/30)}
3/1694 . . {Allocation of channels in TDM/TDMA networks, e.g. distributed multiplexers (Passive Optical Networks H04Q 11/0062)}
3/17 . in which the transmission channel allotted to a first user may be taken away and re-allotted to a second user if the first user becomes inactive, e.g. TASI {(speech analysis or identification G10L)}
3/172 . . {Digital speech interpolation, i.e. DSI}
3/175 . . {Speech activity or inactivity detectors (echo suppressors H04B 3/20)}
3/177 . . {Freeze-out systems, e.g. taking away active sources from transmission}
3/18 . using frequency compression and subsequent expansion of the individual signals
3/20 . using resonant transfer
3/22 . in which the sources have different rates or codes {(simultaneous speech and digital data or video transmission H04M 11/06; see provisional also H04J 3/16)}
3/24 . in which the allocation is indicated by an address {the different channels being transmitted sequentially}(H04J 3/17 takes precedence; in computers G06F 12/00, G06F 13/00 {code multiplex systems H04J 13/00; selecting techniques H04Q; relay systems H04B 7/14})
3/242 . . {the frames being of variable length}
3/245 . . {in which the allocation protocols between more than two stations share the same transmission medium (stations for satellite systems H04B 7/185)}
3/247 . . {ATM or packet multiplexing}
3/26 . . in which the information and the address are simultaneously transmitted

4/00 Combined time-division and frequency-division multiplex systems (H04J 13/00 takes precedence {; data transmission H04L 5/26; telemetry G08C 15/00})
4/005 . {Transmultiplexing}

7/00 Multiplex systems in which the amplitudes or durations of the signals in individual channels are characteristic of those channels
7/02 . in which the polarity of the amplitude is characteristic

9/00 Multiplex systems in which each channel is represented by a different type of modulation of the carrier

11/00 Orthogonal multiplex systems, {e.g. using WALSH codes}(H04J 13/00 takes precedence)
2011/0003 . {Combination with other multiplexing techniques}
2011/0006 . . {with CDM/CDMA}
2011/0009 . . {with FDM/FDMA}
2011/0013 . . {with TDM/TDMA}
2011/0016 . . {with FDM/FDMA and TDM/TDMA}
2011/002 . . {Delay multiplexing}
11/0023 . {Interference mitigation or co-ordination (traffic scheduling H04W 72/082, H04W 72/1226; power management H04W 52/00; allocation criteria for ingress interference avoidance H04L 5/0062; frequency allocation criteria for requirements on out-of-channel emissions H04L 5/0066; peak power aspects in multicarrier modulation H04L 27/2614; arrangements for removing intersymbol interference or baseband equalisers H04L 25/03006; direct sequence spread spectrum [DSSS] systems H04B 1/7097; frequency hopping H04B 1/713)}
11/0026 . . {of multi-user interference}
11/003 . . . {at the transmitter (transmission to multiple receive units in multiple input multiple output [MIMO] H04B 7/0452; transmit antenna weighting H04B 7/0615)}
11/0033 . . . . {by pre-cancellation of known interference, e.g. using a matched filter, dirty paper coder or Thomlinson-Harashima precoder (correlative coding in synchronous or start-stop systems H04L 25/497)}
11/0036 . . . {at the receiver}
11/004 . . . . {using regenerative subtractive interference cancellation}
11/0043 . . . . . {by grouping or ordering the users}
11/0046 . . . . {using joint detection algorithms}
11/005 . . {of intercell interference}
11/0053 . . . {using co-ordinated multipoint transmission/reception (co-ordinated antenna or beam-forming aspects H04B 7/022)}
11/0056 . . . {Inter-base station aspects}
11/0059 . . . {Out-of-cell user aspects}
11/0063 . . {of multipath interference, e.g. Rake receivers}
11/0066 . . {of narrowband interference (narrowband interference reduction H04B 1/1036)}
11/0069 . {Cell search, i.e. determining cell identity [cell-ID] (design of multiplexing codes H04J 13/00; processing access restriction or access information H04W 48/16; discovery of network devices for network data management H04W 8/005; sounding signals for channel estimation H04L 25/0226; structure of reference signals in multicarrier modulation systems H04L 27/2613; frame, time or carrier synchronisation in multicarrier modulation systems H04L 27/2655)}
11/0073 . . {Acquisition of primary synchronisation channel, e.g. detection of cell-ID within cell-ID group}
11/0076 . . {Acquisition of secondary synchronisation channel, e.g. detection of cell-ID group}
11/0079 . . {Acquisition of downlink reference signals, e.g. detection of cell-ID}
11/0083 . . {Multi-mode cell search, i.e. where several modes or systems can be used, e.g. backwards compatible, dual mode or flexible systems}
11/0086 . . {Search parameters, e.g. search strategy, accumulation length, range of search, thresholds (code acquisition in DSSS H04B 1/7075)}
11/0089 . . {Search hardware arrangements, e.g. sharing of correlators to reduce complexity}

11/0093 . . {Neighbour cell search}
2011/0096 . {Network synchronisation}

13/00 **Code division multiplex systems** (for frequency hopping H04B 1/713)

NOTE

When classifying in this group, any aspect of spread spectrum techniques not specific to frequency hopping, and which is considered to represent information of interest for search, may also be classified in group H04B 1/69.

13/0003 . {Code application, i.e. aspects relating to how codes are applied to form multiplexed channels}
13/0007 . {Code type}

NOTE

Code type information should be classified in addition to other relevant aspects. This should also be done in cases where the other relevant symbol refers to code type, e.g. H04J 13/14, H04J 13/20)

13/0011 . . {Complementary}
13/0014 . . . {Golay}
13/0018 . . {Chaotic}
13/0022 . . {PN, e.g. Kronecker}
13/0025 . . . {M-sequences}
13/0029 . . . {Gold}
13/0033 . . . {Kasami}
2013/0037 . . {Multilevel codes}
13/004 . . {Orthogonal}
13/0044 . . . {OVSF [orthogonal variable spreading factor]}
13/0048 . . . {Walsh}
13/0051 . . . {Orthogonal gold}
13/0055 . . {ZCZ [zero correlation zone]}
13/0059 . . . {CAZAC [constant-amplitude and zero auto-correlation]}
13/0062 . . . . {Zadoff-Chu}
13/0066 . . . . {GCL [generalized chirp-like] sequences}
13/007 . . . {LAS, i.e. LA, LS and LAS codes}
13/0074 . {Code shifting or hopping}
13/0077 . {Multicode, e.g. multiple codes assigned to one user}
2013/0081 . . {with FDM/FDMA}
2013/0085 . . {with TDM/TDMA}
2013/0088 . . {with FDM/FDMA and TDM/TDMA}
2013/0092 . . {Delay multiplexing}
2013/0096 . {Network synchronisation}
13/10 . Code generation
13/102 . . {Combining codes}
13/105 . . . {by extending}
13/107 . . . {by concatenation}
13/12 . . Generation of orthogonal codes
13/14 . . Generation of codes with a zero correlation zone
13/16 . Code allocation
2013/165 . . {Joint allocation of code together with frequency or time}
13/18 . . Allocation of orthogonal codes
13/20 . . . having an orthogonal variable spreading factor [OVSF]
13/22 . . Allocation of codes with a zero correlation zone

14/00 **Optical multiplex systems** (optical coupling, mixing or splitting, per se G02B)
14/002 . {Coherencemultiplexing}
14/005 . {Optical Code Multiplex}
14/007 . . {Orthogonal Optical Code Multiplex}
14/02 . Wavelength-division multiplex systems
14/0201 . . {Add-and-drop multiplexing}
14/0202 . . . {Arrangements therefor}
14/0204 . . . . {Broadcast and select arrangements, e.g. with an optical splitter at the input before adding or dropping}
14/0205 . . . . {Select and combine arrangements, e.g. with an optical combiner at the output after adding or dropping}
14/0206 . . . . {Express channels arrangements}
14/0208 . . . . {Interleaved arrangements}
14/0209 . . . . {Multi-stage arrangements, e.g. by cascading multiplexers or demultiplexers}
14/021 . . . . {Reconfigurable arrangements, e.g. reconfigurable optical add/drop multiplexers [ROADM] or tunable optical add/drop multiplexers [TOADM]}
14/0212 . . . . . {using optical switches or wavelength selective switches [WSS]}
14/0213 . . . . {Groups of channels or wave bands arrangements}
14/0215 . . . {Architecture aspects}
14/0216 . . . . {Bidirectional architectures}
14/0217 . . . . {Multi-degree architectures, e.g. having a connection degree greater than two}
14/0219 . . . . {Modular or upgradable architectures}
14/022 . . . . {For interconnection of WDM optical networks}
14/0221 . . {Power control, e.g. to keep the total optical power constant}
14/0223 . . {Conversion to or from optical TDM}
14/0224 . . {Irregular wavelength spacing, e.g. to accommodate interference to all wavelengths}
14/0226 . . {Fixed carrier allocation, e.g. according to service}
14/0227 . . {Operation, administration, maintenance or provisioning [OAMP] of WDM networks, e.g. media access, routing or wavelength allocation}
14/0228 . . . {Wavelength allocation for communications one-to-all, e.g. broadcasting wavelengths}
14/023 . . . . {in WDM passive optical networks [WDM-PON]}
14/0232 . . . . . {for downstream transmission}
14/0234 . . . . . {using multiple wavelengths}
14/0235 . . . . . {for upstream transmission}
14/0236 . . . . . {using multiple wavelengths}
14/0238 . . . {Wavelength allocation for communications one-to-many, e.g. multicasting wavelengths}
14/0239 . . . . {in WDM-PON sharing multiple downstream wavelengths for groups of optical network units [ONU], e.g. multicasting wavelengths}
14/0241 . . . {Wavelength allocation for communications one-to-one, e.g. unicasting wavelengths}
14/0242 . . . . {in WDM-PON}
14/0245 . . . . . {for downstream transmission, e.g. optical line terminal [OLT] to ONU}
14/0246 . . . . . {using one wavelength per ONU}

14/0247 . . . . . {Sharing one wavelength for at least a group of ONUs}
14/0249 . . . . . {for upstream transmission, e.g. ONU-to-OLT or ONU-to-ONU}
14/025 . . . . . {using one wavelength per ONU, e.g. for transmissions from-ONU-to-OLT or from-ONU-to-ONU}
14/0252 . . . . . {Sharing one wavelength for at least a group of ONUs, e.g. for transmissions from-ONU-to-OLT or from-ONU-to-ONU}
2014/0253 . . . . . {Allocation of downstream wavelengths for upstream transmission (optical transmission using a single light source for multiple stations H04B 10/2587)}
14/0254 . . . {Optical medium access}
14/0256 . . . . {at the optical channel layer}
14/0257 . . . . . {Wavelength assignment algorithms}
14/0258 . . . . . {Wavelength identification or labelling}
14/026 . . . . . {using WDM channels of different transmission rates}
14/0261 . . . . {at the optical multiplex section layer}
14/0263 . . . . . {Multiplex section layer wavelength assignment algorithms}
14/0264 . . . . . {Multiplex identification or labelling}
14/0265 . . . . . {Multiplex arrangements in bidirectional systems, e.g. interleaved allocation of wavelengths or allocation of wavelength groups}
14/0267 . . . . {Optical signaling or routing (routing or path finding of packets in data switching networks H04L 45/00)}
14/0268 . . . . . {Restoration of optical paths, e.g. p-cycles (route fault recovery of packets in data switching networks H04L 45/28)}
14/0269 . . . . . {using tables for routing (organization of routing tables of packets in data switching networks H04L 45/54)}
14/0271 . . . . . {Impairment aware routing}
14/0272 . . . . {Transmission of OAMP information (using a supervisory or additional signal for monitoring of optical transmission parameters in general H04B 10/077)}
14/0273 . . . . . {using optical overhead, e.g. overhead processing}
14/0275 . . . . . {using an optical service channel}
14/0276 . . . . . {using pilot tones}
14/0278 . . {WDM optical network architectures}
14/0279 . . . {WDM point-to-point architectures}
14/028 . . . {WDM bus architectures}
14/0282 . . . {WDM tree architectures}
14/0283 . . . {WDM ring architectures}
14/0284 . . . {WDM mesh architectures}
14/0286 . . . {WDM hierarchical architectures}
14/0287 . . {Protection in WDM systems}
14/0289 . . . {Optical multiplex section protection}
14/029 . . . . {Dedicated protection at the optical multiplex section (1+1)}
14/0291 . . . . {Shared protection at the optical multiplex section (1:1, n:m)}
14/0293 . . . {Optical channel protection}
14/0294 . . . . {Dedicated protection at the optical channel (1+1)}
14/0295 . . . . {Shared protection at the optical channel (1:1, n:m)}
14/0297 . . . {Optical equipment protection}
14/0298 . . {with sub-carrier multiplexing [SCM]}
14/04 . Mode multiplex systems
14/06 . Polarisation multiplex systems
14/08 . Time-division multiplex systems
14/083 . . {Add and drop multiplexing}
14/086 . . {Medium access (H04J 3/16 takes precedence)}

15/00 {Multiplex systems not otherwise provided for}

2203/00 Aspects of optical multiplex systems other than those covered by H04J 14/00

2203/0001 . Provisions for broadband connections in integrated services digital network using frames of the Optical Transport Network [OTN] or using synchronous transfer mode [STM], e.g. SONET, SDH
2203/0003 . . Switching fabrics, e.g. transport network, control network
2203/0005 . . . Switching elements
2203/0007 . . . . Space switch details
2203/0008 . . . . Time switch details
2203/001 . . . . using a shared central buffer
2203/0012 . . . Switching modules and their interconnections
2203/0014 . . . . Clos
2203/0016 . . . . Crossbar
2203/0017 . . . . Parallel switch planes
2203/0019 . . . Multicast/broadcast capabilities
2203/0021 . . . Control mechanisms
2203/0023 . . . Routing/path finding
2203/0025 . . . Peripheral units
2203/0026 . . . Physical details
2203/0028 . . Local loop
2203/003 . . . Medium of transmission, e.g. fibre, cable, radio
2203/0032 . . . . Fibre
2203/0033 . . . . Metallic
2203/0035 . . . . Radio
2203/0037 . . . . Satellite
2203/0039 . . . Topology
2203/0041 . . . . Star, e.g. cross-connect, concentrator, subscriber group equipment, remote electronics
2203/0042 . . . . Ring
2203/0044 . . . . Bus, e.g. DQDB
2203/0046 . . User Network Interface
2203/0048 . . . Network termination, e.g. NT1, NT2, PBX
2203/005 . . . Terminal equipment, e.g. codecs, synch
2203/0051 . . Network Node Interface, e.g. tandem connections, transit switching
2203/0053 . . . Routing
2203/0055 . . . Network design, dimensioning, topology or optimisation
2203/0057 . . Operations, administration and maintenance [OAM]
2203/0058 . . . Network management, e.g. Intelligent nets
2203/006 . . . Fault tolerance and recovery
2203/0062 . . Testing
2203/0064 . . Admission Control
2203/0066 . . . Signalling, e.g. protocols, reference model
2203/0067 . . . Resource management and allocation
2203/0069 . . . . Channel allocation
2203/0071 . . . . Monitoring

2203/0073 . . Services, e.g. multimedia, GOS, QOS
2203/0075 . . . Connection-oriented
2203/0076 . . . Channel characteristics, e.g. BER, error detection, error correction, delay, jitter
2203/0078 . . . Support of N-ISDN
2203/008 . . . Support of video
2203/0082 . . . Interaction of SDH with non-ATM protocols
2203/0083 . . . . Support of the IP protocol
2203/0085 . . . . Support of Ethernet
2203/0087 . . . Support of voice
2203/0089 . . Multiplexing, e.g. coding, scrambling, SONET
2203/0091 . . . Time slot assignment
2203/0092 . . . Code Division Multiple Access [CDMA]
2203/0094 . . . Virtual Concatenation
2203/0096 . . . Serial Concatenation
2203/0098 . . Traffic aspects, e.g. arbitration, load balancing, smoothing, buffer management

2211/00 Orthogonal indexing scheme relating to orthogonal multiplex systems

2211/001 . using small cells within macro cells, e.g. femto, pico or microcells
2211/003 . within particular systems or standards
2211/005 . . Long term evolution [LTE]
2211/006 . . Single carrier frequency division multiple access [SC FDMA]
2211/008 . . Interleaved frequency division multiple access [IFDMA]