

# CPC COOPERATIVE PATENT CLASSIFICATION

## H ELECTRICITY

(NOTE omitted)

## H04 ELECTRIC COMMUNICATION TECHNIQUE

(NOTE omitted)

## H04H BROADCAST COMMUNICATION (multiplex communication [H04J](#); pictorial communication aspects of broadcast systems [H04N](#))

### NOTES

- In this subclass, the following terms or expressions are used with the meaning indicated:
  - "broadcast" is simultaneous distribution of identical signals to plural receiving stations. The term "broadcast" does not include distribution to receiving stations which is controlled by requests or responses from the receiving stations;
  - "broadcast information" covers all kinds of information distributed by broadcast systems;
  - "broadcast-related information" is information required by services provided via broadcast systems, other than broadcast information;
  - "broadcast time" is a time when particular broadcast information exists and is available;
  - "broadcast channel" is a channel via which broadcast information is distributed, e.g. carrier waves, time slots, cables or wireless broadcast service areas;
  - "broadcast space" is either a set of broadcast channels in which particular broadcast information exists and is available or a geographical area determined by the set of broadcast channels;
  - "broadcast space-time" is space-time determined by broadcast space and broadcast time in which particular broadcast information exists and is available;
  - "broadcast system" is a system which consists of transmitter, transponder and receiver for broadcast;
  - "broadcast-related system" is a system which is directly affected by generation, broadcast, reception or use of broadcast information;
  - "broadcast service" is a service directly provided by a broadcast system, i.e. distribution service of broadcast information;
  - "broadcast-related service" is a service provided by broadcast-related systems;
  - "A with a direct linkage to B" means that A directly affects B or that A is directly affected by B.
- In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups, which is considered to represent information of interest for search, may also be classified in each of those groups.

|              |  |        |   |
|--------------|--|--------|---|
| <b>20/00</b> | <b>Arrangements for broadcast or for distribution combined with broadcast</b>                              | 20/28  | • Arrangements for simultaneous broadcast of plural pieces of information                             |
| 20/02        | • Arrangements for relaying broadcast information  | 20/30  | • . . by a single channel   |
| 20/04        | • . . from field pickup units [FPU]  | 20/31  | • . . . using in-band signals, e.g. subsonic or cue signal  |
| 20/06        | • . . among broadcast stations   |        |   |
| 20/08        | • . . among terminal devices   | 20/33  | • . . by plural channels  |
| 20/10        | • Arrangements for replacing or switching information during the broadcast or the distribution             | 20/34  | • . . . using an out-of-band subcarrier signal  |
| 20/103       | • . . {Transmitter-side switching}   | 20/36  | • . . for AM broadcasts   |
| 20/106       | • . . {Receiver-side switching}  | 20/38  | • Arrangements for distribution where lower stations, e.g. receivers, interact with the broadcast     |
| 20/12        | • Arrangements for observation, testing or troubleshooting   | 20/40  | • Arrangements for broadcast specially adapted for accumulation-type receivers                        |
| 20/14        | • . . for monitoring programmes  | 20/42  | • Arrangements for resource management  |
| 20/16        | • Arrangements for broadcast or for distribution of identical information repeatedly                       | 20/423 | • . . {Transmitter side}  |
| 20/18        | • Arrangements for synchronising broadcast or distribution via plural systems                              | 20/426 | • . . {Receiver side}   |
| 20/20        | • Arrangements for broadcast or distribution of identical information via plural systems                   | 20/44  | • Arrangements characterised by circuits or components specially adapted for broadcast                |
| 20/22        | • . . Arrangements for broadcast of identical information via plural broadcast systems                     | 20/46  | • . . specially adapted for broadcast systems covered by groups <a href="#">H04H 20/53-H04H 20/95</a> |
| 20/24        | • . . Arrangements for distribution of identical information via broadcast system and non-broadcast system | 20/47  | • . . . specially adapted for stereophonic broadcast systems  |
| 20/26        | • Arrangements for switching distribution systems  | 20/48  | • . . . . for FM stereophonic broadcast systems   |
|              |  | 20/49  | • . . . . for AM stereophonic broadcast systems   |
|              |  | 20/51  | • . . . specially adapted for satellite broadcast systems   |

|              |   |              |   |
|--------------|---|--------------|---|
| 20/53        | • Arrangements specially adapted for specific applications, e.g. for traffic information or for mobile receivers      | 40/90        | • . . . specially adapted for satellite broadcast receiving   |
| 20/55        | • . for traffic information   | <b>60/00</b> | <b>Arrangements for broadcast applications with a direct linking to broadcast information or broadcast space-time; Broadcast-related systems</b>  |
| 20/57        | • . for mobile receivers  |              |   |
| 20/59        | • . for emergency or urgency  | 60/02        | • Arrangements for generating broadcast information; Arrangements for generating broadcast-related information with a direct linking to broadcast information or to broadcast space-time; Arrangements for simultaneous generation of broadcast information and broadcast-related information |
| 20/61        | • . for local area broadcast, e.g. instore broadcast  |              |   |
| 20/62        | • . . for transportation systems, e.g. in vehicles  | 60/04        | • . Studio equipment; Interconnection of studios  |
| 20/63        | • . . . to plural spots in a confined site, e.g. MATV [Master Antenna Television]                                     | 60/05        | • . . . Mobile studios  |
| 20/65        | • Arrangements characterised by transmission systems for broadcast  | 60/06        | • . Arrangements for scheduling broadcast services or broadcast-related services  |
| 20/67        | • . Common-wave systems, i.e. using separate transmitters operating on substantially the same frequency               | 60/07        | • . characterised by processes or methods for the generation  |
| 20/69        | • . Optical systems   | 60/09        | • Arrangements for device control with a direct linkage to broadcast information or to broadcast space-time; Arrangements for control of broadcast-related services   |
| 20/71        | • . Wireless systems  |              |   |
| 20/72        | • . . of terrestrial networks   | 60/11        | • . Arrangements for counter-measures when a portion of broadcast information is unavailable  |
| 20/74        | • . . of satellite networks   | 60/12        | • . . wherein another information is substituted for the portion of broadcast information   |
| 20/76        | • . Wired systems   | 60/13        | • . Arrangements for device control affected by the broadcast information   |
| 20/77        | • . . using carrier waves   | 60/14        | • . Arrangements for conditional access to broadcast information or to broadcast-related services   |
| 20/78        | • . . . CATV [Community Antenna Television] systems   | 60/15        | • . . on receiving information  |
| 20/79        | • . . . . using downlink of the CATV systems, e.g. audio broadcast via CATV network                                   | 60/16        | • . . on playing information  |
| 20/80        | • . . . having frequencies in two or more frequency bands, e.g. medium wave and VHF                                   | 60/17        | • . . on recording information  |
| 20/81        | • . . . combined with telephone network over which the broadcast is continuously available                            | 60/18        | • . . on copying information  |
| 20/82        | • . . using signals not modulated onto a carrier  | 60/19        | • . . on transmission of information  |
| 20/83        | • . . . not sharing the network with any other service  | 60/20        | • . . on secondary editing information  |
| 20/84        | • . . combined with power distribution network  | 60/21        | • . . Billing for the use of broadcast information or broadcast-related information   |
| 20/86        | • Arrangements characterised by the broadcast information itself  | 60/22        | • . . . per use   |
| 20/88        | • . Stereophonic broadcast systems {(multiplex system in general H04J)}   | 60/23        | • . . using cryptography, e.g. encryption, authentication, key distribution   |
| 20/89        | • . . using three or more audio channels, e.g. triphonic or quadraphonic  | 60/25        | • Arrangements for updating broadcast information or broadcast-related information  |
| 20/91        | • . broadcasting computer programmes  | 60/27        | • Arrangements for recording or accumulating broadcast information or broadcast-related information   |
| 20/93        | • . which locates resources of other pieces of information, e.g. URL [Uniform Resource Locator]                       | 60/29        | • Arrangements for monitoring broadcast services or broadcast-related services  |
| 20/95        | • . characterised by a specific format, e.g. MP3 (MPEG-1 Audio Layer 3)   | 60/31        | • . Arrangements for monitoring the use made of the broadcast services  |
| <b>40/00</b> | <b>Arrangements specially adapted for receiving broadcast information</b>   | 60/32        | • . Arrangements for monitoring conditions of receiving stations, e.g. malfunction or breakdown of receiving stations   |
| 40/09        | • Arrangements for receiving desired information automatically according to timetables                                | 60/33        | • . Arrangements for monitoring the users' behaviour or opinions  |
| 40/18        | • Arrangements characterised by circuits or components specially adapted for receiving                                | 60/35        | • Arrangements for identifying or recognising characteristics with a direct linkage to broadcast information or to broadcast space-time, e.g. for identifying broadcast stations or for identifying users   |
| 40/27        | • . specially adapted for broadcast systems covered by groups <a href="#">H04H 20/53</a> - <a href="#">H04H 20/95</a> | 60/37        | • . for identifying segments of broadcast information, e.g. scenes or extracting programme ID   |
| 40/36        | • . . specially adapted for stereophonic broadcast receiving  | 60/372       | • . . {Programme}   |
| 40/45        | • . . . for FM stereophonic broadcast systems receiving   |              |   |
| 40/54        | • . . . . generating subcarriers  |              |   |
| 40/63        | • . . . . for separation improvements or adjustments  |              |   |
| 40/72        | • . . . . for noise suppression   |              |   |
| 40/81        | • . . . . for stereo-monaural switching   |              |   |

- 60/375 . . . {Commercial}
- 60/377 . . . {Scene}
- 60/38 . . for identifying broadcast time or space
- 60/39 . . . for identifying broadcast space-time (use of [Electronic Programme Guides H04H 60/72](#))
- 60/40 . . . for identifying broadcast time
- 60/41 . . . for identifying broadcast space, i.e. broadcast channels, broadcast stations or broadcast areas
- 60/42 . . . . for identifying broadcast areas
- 60/43 . . . . for identifying broadcast channels
- 60/44 . . . . for identifying broadcast stations
- 60/45 . . for identifying users
- 60/46 . . for recognising users' preferences
- 60/47 . . for recognising genres
- 60/48 . . for recognising items expressed in broadcast information
- 60/49 . . for identifying locations
- 60/50 . . . of broadcast or relay stations
- 60/51 . . . of receiving stations
- 60/52 . . . of users
- 60/53 . . . of destinations
- 60/54 . . . where broadcast information is generated
- 60/56 . Arrangements characterised by components specially adapted for monitoring, identification or recognition covered by groups [H04H 60/29-H04H 60/54](#)
- 60/58 . . of audio {(determination or detection of speech characteristics in general [G10L 25/00](#); speech recognition in general [G10L 15/00](#))}
- 60/59 . . of video {(recognising characters or patterns in general [G06K 9/00](#))}
- 60/61 . Arrangements for services using the result of monitoring, identification or recognition covered by groups [H04H 60/29-H04H 60/54](#)
- 60/63 . . for services of sales {(data processing systems or methods specially adapted for electronic commerce [G06Q 30/00](#))}
- 60/64 . . for providing detail information
- 60/65 . . for using the result on users' side
- 60/66 . . for using the result on distributors' side
- 60/68 . Systems specially adapted for using specific information, e.g. geographical or meteorological information
- 60/70 . . using geographical information, e.g. maps, charts or atlases
- 60/71 . . using meteorological information
- 60/72 . . using EPGs [Electronic Programme Guides] (focusing on identifying broadcast space-time [H04H 60/39](#); {menu type display of EPG in television receivers [H04N 5/44543](#)})
- 60/73 . . using meta-information
- 60/74 . . . using programme related information, e.g. title, composer or interpreter
- 60/76 . Arrangements characterised by transmission systems other than for broadcast, e.g. the Internet {(for broadcast [H04H 20/65](#))}
- 60/78 . . characterised by source locations or destination locations
- 60/79 . . . characterised by transmission among broadcast stations
- 60/80 . . . characterised by transmission among terminal devices
- 60/81 . . characterised by the transmission system itself
- 60/82 . . . the transmission system being the Internet
- 60/83 . . . . accessed over telephonic networks
- 60/84 . . . . . which are fixed telephone networks
- 60/85 . . . . . which are mobile communication networks
- 60/86 . . . . accessed over CATV networks
- 60/87 . . . . accessed over computer networks
- 60/88 . . . . . which are wireless networks
- 60/89 . . . . . which are wired networks
- 60/90 . . . Wireless transmission systems
- 60/91 . . . . Mobile communication networks (for accessing the Internet [H04H 60/85](#))
- 60/92 . . . . for local area
- 60/93 . . . Wired transmission systems
- 60/94 . . . . Telephonic networks (for accessing the Internet [H04H 60/84](#))
- 60/95 . . . . for local area
- 60/96 . . . . CATV systems (for accessing the Internet [H04H 60/86](#))
- 60/97 . . . . . using uplink of the CATV systems
- 60/98 . . . Physical distribution of media, e.g. postcards, CDs or DVDs
- 2201/00 Aspects of broadcast communication**
- 2201/10 . characterised by the type of broadcast system
- 2201/11 . . digital multimedia broadcasting [DMB]
- 2201/12 . . digital radio mondiale [DRM]
- 2201/13 . . radio data system/radio broadcast data system [RDS/RBDS]
- 2201/14 . . direct broadcast satellite [DBS]
- 2201/15 . . system for wireless information forwarding and teledistribution [SWIFT]
- 2201/16 . . digital video broadcasting - handhelds [DVB-H]
- 2201/17 . . in band adjacent channel [IBAC]
- 2201/18 . . in band on channel [IBOC]
- 2201/183 . . . FM digital or hybrid
- 2201/186 . . . AM digital or hybrid
- 2201/19 . . digital satellite radio [DSR]
- 2201/20 . . digital audio broadcasting [DAB]
- 2201/30 . characterised by the use of a return channel, e.g. for collecting users' opinions, for returning broadcast space/time information or for requesting data
- 2201/33 . . via the broadcast channel
- 2201/37 . . via a different channel
- 2201/40 . characterised in that additional data relating to the broadcast data are available via a different channel than the broadcast channel
- 2201/50 . characterised by the use of watermarks
- 2201/60 . characterised in that the receiver comprises more than one tuner
- 2201/70 . characterised in that receivers can be addressed
- 2201/80 . characterised in that motion picture association of America [MPAA] ratings are used
- 2201/90 . characterised by the use of signatures