

# 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](#))

### NOTE

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.

### 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.

<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
		20/48	• . . . . for FM stereophonic broadcast systems
		20/49	• . . . . for AM stereophonic broadcast systems
20/26	• Arrangements for switching distribution 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
- 20/55 . . for traffic information
- 20/57 . . for mobile receivers
- 20/59 . . for emergency or urgency
- 20/61 . . for local area broadcast, e.g. instore broadcast
- 20/62 . . . for transportation systems, e.g. in vehicles
- 20/63 . . . to plural spots in a confined site, e.g. MATV [Master Antenna Television]
- 20/65 . Arrangements characterised by transmission systems for broadcast
- 20/67 . . Common-wave systems, i.e. using separate transmitters operating on substantially the same frequency
- 20/69 . . Optical systems
- 20/71 . . Wireless systems
- 20/72 . . . of terrestrial networks
- 20/74 . . . of satellite networks
- 20/76 . . Wired systems
- 20/77 . . . using carrier waves
- 20/78 . . . . CATV [Community Antenna Television] systems
- 20/79 . . . . using downlink of the CATV systems, e.g. audio broadcast via CATV network
- 20/80 . . . . having frequencies in two or more frequency bands, e.g. medium wave and VHF
- 20/81 . . . . combined with telephone network over which the broadcast is continuously available
- 20/82 . . . using signals not modulated onto a carrier
- 20/83 . . . . not sharing the network with any other service
- 20/84 . . . combined with power distribution network
- 20/86 . Arrangements characterised by the broadcast information itself
- 20/88 . . Stereophonic broadcast systems {[multiplex system in general H04J](#)}
- 20/89 . . . using three or more audio channels, e.g. triphonic or quadraphonic
- 20/91 . . broadcasting computer programmes
- 20/93 . . which locates resources of other pieces of information, e.g. URL [Uniform Resource Locator]
- 20/95 . . characterised by a specific format, e.g. MP3 (MPEG-1 Audio Layer 3)
- 40/00 Arrangements specially adapted for receiving broadcast information**
- 40/09 . Arrangements for receiving desired information automatically according to timetables
- 40/18 . Arrangements characterised by circuits or components specially adapted for receiving
- 40/27 . . specially adapted for broadcast systems covered by groups [H04H 20/53](#) - [H04H 20/95](#)
- 40/36 . . . specially adapted for stereophonic broadcast receiving
- 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
- 40/90 . . . specially adapted for satellite broadcast receiving
- 60/00 Arrangements for broadcast applications with a direct linking to broadcast information or broadcast space-time; Broadcast-related systems**
- 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
- 60/04 . . Studio equipment; Interconnection of studios
- 60/05 . . . Mobile studios
- 60/06 . . Arrangements for scheduling broadcast services or broadcast-related services
- 60/07 . . characterised by processes or methods for the generation
- 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
- 60/11 . . Arrangements for counter-measures when a portion of broadcast information is unavailable
- 60/12 . . . wherein another information is substituted for the portion of broadcast information
- 60/13 . . Arrangements for device control affected by the broadcast information
- 60/14 . . Arrangements for conditional access to broadcast information or to broadcast-related services
- 60/15 . . . on receiving information
- 60/16 . . . on playing information
- 60/17 . . . on recording information
- 60/18 . . . on copying information
- 60/19 . . . on transmission of information
- 60/20 . . . on secondary editing information
- 60/21 . . . Billing for the use of broadcast information or broadcast-related information
- 60/22 . . . . per use
- 60/23 . . . using cryptography, e.g. encryption, authentication, key distribution
- 60/25 . Arrangements for updating broadcast information or broadcast-related information
- 60/27 . Arrangements for recording or accumulating broadcast information or broadcast-related information
- 60/29 . Arrangements for monitoring broadcast services or broadcast-related services
- 60/31 . . Arrangements for monitoring the use made of the broadcast services
- 60/32 . . Arrangements for monitoring conditions of receiving stations, e.g. malfunction or breakdown of receiving stations
- 60/33 . . Arrangements for monitoring the users' behaviour or opinions
- 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
- 60/37 . . for identifying segments of broadcast information, e.g. scenes or extracting programme ID
- 60/372 . . . {[Programme](#)}

- 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 21/47](#)})
  - 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