

CPC**COOPERATIVE PATENT CLASSIFICATION****H04H**

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

NOTE

1. 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.

2. 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.

H04H 20/00**Arrangements for broadcast or for distribution combined with broadcast****H04H 20/02**

. Arrangements for relaying broadcast information

- H04H 20/04 . . from field pickup units (FPU)
- H04H 20/06 . . among broadcast stations
- H04H 20/08 . . among terminal devices
- H04H 20/10 . Arrangements for replacing or switching information during the broadcast or the distribution
- H04H 20/103 . . { Transmitter-side switching}
- H04H 20/106 . . { Receiver-side switching}
- H04H 20/12 . Arrangements for observation, testing or troubleshooting
- H04H 20/14 . . for monitoring programmes
- H04H 20/16 . Arrangements for broadcast or for distribution of identical information repeatedly
- H04H 20/18 . Arrangements for synchronising broadcast or distribution via plural systems
- H04H 20/20 . Arrangements for broadcast or distribution of identical information via plural systems
- H04H 20/22 . . Arrangements for broadcast of identical information via plural broadcast systems
- H04H 20/24 . . Arrangements for distribution of identical information via broadcast system and non-broadcast system
- H04H 20/26 . Arrangements for switching distribution systems
- H04H 20/28 . Arrangements for simultaneous broadcast of plural pieces of information
- H04H 20/30 . . by a single channel
- H04H 20/31 . . . using in-band signals, e.g. subsonic or cue signal
- H04H 20/33 . . by plural channels
- H04H 20/34 . . . using an out-of-band subcarrier signal
- H04H 20/36 . . for AM broadcasts
- H04H 20/38 . Arrangements for distribution where lower stations, e.g. receivers, interact with the broadcast
- H04H 20/40 . Arrangements for broadcast specially adapted for accumulation-type receivers
- H04H 20/42 . Arrangements for resource management
- H04H 20/423 . . { Transmitter side}
- H04H 20/426 . . { Receiver side}
- H04H 20/44 . Arrangements characterised by circuits or components specially adapted for broadcast
- H04H 20/46 . . specially adapted for broadcast systems covered by groups
 [H04H 20/53-H04H 20/95](#)
- H04H 20/47 . . . specially adapted for stereophonic broadcast systems
- H04H 20/48 for FM stereophonic broadcast systems
- H04H 20/49 for AM stereophonic broadcast systems
- H04H 20/51 . . . specially adapted for satellite broadcast systems
- H04H 20/53 . Arrangements specially adapted for specific applications, e.g. for traffic information or for mobile receivers
- H04H 20/55 . . for traffic information
- H04H 20/57 . . for mobile receivers
- H04H 20/59 . . for emergency or urgency
- H04H 20/61 . . for local area broadcast, e.g. instore broadcast

- H04H 20/62 . . . for transportation systems, e.g. in vehicles
- H04H 20/63 . . . to plural spots in a confined site, e.g. MATV ([Master Antenna Television](#))
- H04H 20/65 . Arrangements characterised by transmission systems for broadcast
- H04H 20/67 .. Common-wave systems, i.e. using separate transmitters operating on substantially the same frequency
- H04H 20/69 .. Optical systems
- H04H 20/71 .. Wireless systems
- H04H 20/72 . . . of terrestrial networks
- H04H 20/74 . . . of satellite networks
- H04H 20/76 .. Wired systems
- H04H 20/77 . . . using carrier waves
- H04H 20/78 CATV ([Community Antenna Television](#)) systems
- H04H 20/79 using downlink of the CATV systems, e.g. audio broadcast via CATV network
- H04H 20/80 having frequencies in two or more frequency bands, e.g. medium wave and VHF
- H04H 20/81 combined with telephone network over which the broadcast is continuously available
- H04H 20/82 . . . using signals not modulated onto a carrier
- H04H 20/83 not sharing the network with any other service
- H04H 20/84 . . . combined with power distribution network
- H04H 20/86 . Arrangements characterised by the broadcast information itself
- H04H 20/88 .. Stereophonic broadcast systems {([multiplex system in general H04J](#))}
- H04H 20/89 . . . using three or more audio channels, e.g. triphonic or quadraphonic
- H04H 20/91 .. broadcasting computer programmes
- H04H 20/93 .. which locates resources of other pieces of information, e.g. URL ([Uniform Resource Locator](#))
- H04H 20/95 .. characterised by a specific format, e.g. MP3 (MPEG-1 Audio Layer 3)

H04H 40/00**Arrangements specially adapted for receiving broadcast information**

- H04H 40/09 . Arrangements for receiving desired information automatically according to timetables
- H04H 40/18 . Arrangements characterised by circuits or components specially adapted for receiving
- H04H 40/27 .. specially adapted for broadcast systems covered by groups [H04H 20/53 - H04H 20/95](#)
- H04H 40/36 . . . specially adapted for stereophonic broadcast receiving
- H04H 40/45 for FM stereophonic broadcast systems receiving
- H04H 40/54 generating subcarriers
- H04H 40/63 for separation improvements or adjustments
- H04H 40/72 for noise suppression
- H04H 40/81 for stereo-monaural switching
- H04H 40/90 . . . specially adapted for satellite broadcast receiving

H04H 60/00**Arrangements for broadcast applications with a direct linking to broadcast information or broadcast space-time; Broadcast-related systems**

H04H 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

H04H 60/04

- .. Studio equipment; Interconnection of studios

H04H 60/05

- ... Mobile studios

H04H 60/06

- .. Arrangements for scheduling broadcast services or broadcast-related services

H04H 60/07

- .. characterised by processes or methods for the generation

H04H 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

H04H 60/11

- .. Arrangements for counter-measures when a portion of broadcast information is unavailable

H04H 60/12

- ... wherein another information is substituted for the portion of broadcast information

H04H 60/13

- .. Arrangements for device control affected by the broadcast information

H04H 60/14

- .. Arrangements for conditional access to broadcast information or to broadcast-related services

H04H 60/15

- ... on receiving information

H04H 60/16

- ... on playing information

H04H 60/17

- ... on recording information

H04H 60/18

- ... on copying information

H04H 60/19

- ... on transmission of information

H04H 60/20

- ... on secondary editing information

H04H 60/21

- ... Billing for the use of broadcast information or broadcast-related information

H04H 60/22

- per use

H04H 60/23

- ... using cryptography, e.g. encryption, authentication, key distribution

H04H 60/25

- . Arrangements for updating broadcast information or broadcast-related information

H04H 60/27

- . Arrangements for recording or accumulating broadcast information or broadcast-related information

H04H 60/29

- . Arrangements for monitoring broadcast services or broadcast-related services

H04H 60/31

- .. Arrangements for monitoring the use made of the broadcast services

H04H 60/32

- .. Arrangements for monitoring conditions of receiving stations, e.g. malfunction or breakdown of receiving stations

H04H 60/33

- .. Arrangements for monitoring the users' behaviour or opinions

H04H 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

H04H 60/37

- .. for identifying segments of broadcast information, e.g. scenes or extracting programme ID

H04H 60/372

- ... { Programme}

H04H 60/375

- ... { Commercial}

- H04H 60/377 . . . { Scene}
- H04H 60/38 . . for identifying broadcast time or space
- H04H 60/39 . . . for identifying broadcast space-time (use of Electronic Programme Guides [H04H 60/72](#))
- H04H 60/40 . . . for identifying broadcast time
- H04H 60/41 . . . for identifying broadcast space, i.e. broadcast channels, broadcast stations or broadcast areas
- H04H 60/42 for identifying broadcast areas
- H04H 60/43 for identifying broadcast channels
- H04H 60/44 for identifying broadcast stations
- H04H 60/45 . . for identifying users
- H04H 60/46 . . for recognising users' preferences
- H04H 60/47 . . for recognising genres
- H04H 60/48 . . for recognising items expressed in broadcast information
- H04H 60/49 . . for identifying locations
- H04H 60/50 . . . of broadcast or relay stations
- H04H 60/51 . . . of receiving stations
- H04H 60/52 . . . of users
- H04H 60/53 . . . of destinations
- H04H 60/54 . . . where broadcast information is generated
- H04H 60/56 . Arrangements characterised by components specially adapted for monitoring, identification or recognition covered by groups [H04H 60/29-H04H 60/54](#)
- H04H 60/58 . . of audio {(determination or detection of speech characteristics in general [G10L11/00](#); speech recognition in general [G10L 15/00](#))}
- H04H 60/59 . . of video {(recognising characters or patterns in general [G06K 9/00](#))}
- H04H 60/61 . Arrangements for services using the result of monitoring, identification or recognition covered by groups [H04H 60/29-H04H 60/54](#)
- H04H 60/63 . . for services of sales {(data processing systems or methods specially adapted for electronic commerce [G06Q 30/00](#))}
- H04H 60/64 . . for providing detail information
- H04H 60/65 . . for using the result on users' side
- H04H 60/66 . . for using the result on distributors' side
- H04H 60/68 . Systems specially adapted for using specific information, e.g. geographical or meteorological information
- H04H 60/70 . . using geographical information, e.g. maps, charts or atlases
- H04H 60/71 . . using meteorological information
- H04H 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](#)})
- H04H 60/73 . . using meta-information
- H04H 60/74 . . . using programme related information, e.g. title, composer or interpreter
- H04H 60/76 . Arrangements characterised by transmission systems other than for broadcast, e.g. the Internet {(for broadcast [H04H 20/65](#))}

| | | |
|------------|-------|--|
| H04H 60/78 | .. | characterised by source locations or destination locations |
| H04H 60/79 | ... | characterised by transmission among broadcast stations |
| H04H 60/80 | ... | characterised by transmission among terminal devices |
| H04H 60/81 | .. | characterised by the transmission system itself |
| H04H 60/82 | ... | the transmission system being the Internet |
| H04H 60/83 | .... | accessed over telephonic networks |
| H04H 60/84 | ..... | which are fixed telephone networks |
| H04H 60/85 | ..... | which are mobile communication networks |
| H04H 60/86 | .... | accessed over CATV networks |
| H04H 60/87 | .... | accessed over computer networks |
| H04H 60/88 | ..... | which are wireless networks |
| H04H 60/89 | ..... | which are wired networks |
| H04H 60/90 | ... | Wireless transmission systems |
| H04H 60/91 | .... | Mobile communication networks (for accessing the Internet H04H 60/85) |
| H04H 60/92 | .... | for local area |
| H04H 60/93 | ... | Wired transmission systems |
| H04H 60/94 | .... | Telephonic networks (for accessing the Internet H04H 60/84) |
| H04H 60/95 | .... | for local area |
| H04H 60/96 | .... | CATV systems (for accessing the Internet H04H 60/86) |
| H04H 60/97 | ..... | using uplink of the CATV systems |
| H04H 60/98 | ... | Physical distribution of media, e.g. postcards, CDs or DVDs |

H04H 2201/00**{ Aspects of broadcast communication}**

| | | |
|---------------|-----|---|
| H04H 2201/10 | . | { characterised by the type of broadcast system} |
| H04H 2201/11 | .. | { digital multimedia broadcasting [DMB]} |
| H04H 2201/12 | .. | { digital radio mondiale [DRM]} |
| H04H 2201/13 | .. | { radio data system/radio broadcast data system [RDS/RBDS]} |
| H04H 2201/14 | .. | { direct broadcast satellite [DBS]} |
| H04H 2201/15 | .. | { system for wireless information forwarding and teledistribution [SWIFT]} |
| H04H 2201/16 | .. | { digital video broadcasting - handhelds [DVB-H]} |
| H04H 2201/17 | .. | { in band adjacent channel [IBAC]} |
| H04H 2201/18 | .. | { in band on channel [IBOC]} |
| H04H 2201/183 | ... | { FM digital or hybrid} |
| H04H 2201/186 | ... | { AM digital or hybrid} |
| H04H 2201/19 | .. | { digital satellite radio [DSR]} |
| H04H 2201/20 | .. | { digital audio broadcasting [DAB]} |
| H04H 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} |
| H04H 2201/33 | .. | { via the broadcast channel} |
| H04H 2201/37 | .. | { via a different channel} |

- H04H 2201/40
 - { characterised in that additional data relating to the broadcast data are available via a different channel than the broadcast channel}
- H04H 2201/50
 - { characterised by the use of watermarks}
- H04H 2201/60
 - { characterised in that the receiver comprises more than one tuner}
- H04H 2201/70
 - { characterised in that receivers can be addressed}
- H04H 2201/80
 - { characterised in that motion picture association of America [MPAA] ratings are used}
- H04H 2201/90
 - { characterised by the use of signatures}