CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H04 ELECTRIC COMMUNICATION TECHNIQUE

(NOTE omitted)

H04S STEREOPHONIC SYSTEMS

NOTES

1. In this subclass, the following term is used with the meaning indicated:
   - "stereophonic systems" covers quadraphonic or similar systems
2. In this subclass, it is desirable to add the indexing codes of H04S 2400/00 and H04S 2420/00.

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 **Two-channel systems** (H04S 5/00, H04S 7/00 take precedence)

1/002 . {Non-adaptive circuits, e.g. manually adjustable or static, for enhancing the sound image or the spatial distribution (control circuits for electronic adaptation of the sound field H04S 7/30)}

1/005 . . {For headphones}

1/007 . {in which the audio signals are in digital form (data reduction aspects thereof based on psychoacoustics G10L 19/02)}

3/00 **Systems employing more than two channels, e.g. quadraphonic** (H04S 5/00, H04S 7/00 take precedence)

3/002 . {Non-adaptive circuits, e.g. manually adjustable or static, for enhancing the sound image or the spatial distribution (control circuits for electronic adaptation of the sound field H04S 7/30)}

3/004 . . {For headphones}

3/006 . {in which a plurality of audio signals are transformed in a combination of audio signals and modulated signals, e.g. CD-4 systems}

3/008 . {in which the audio signals are in digital form, i.e. employing more than two discrete digital channels (data reduction aspects thereof based on psychoacoustics G10L 19/02)}

3/02 . of the matrix type, i.e. in which input signals are combined algebraically, e.g. after having been phase shifted with respect to each other

5/00 **Pseudo-stereo systems, e.g. in which additional channel signals are derived from monophonic signals by means of phase shifting, time delay or reverberation**

5/005 . {of the pseudo five- or more-channel type, e.g. virtual surround}

5/02 . of the pseudo four-channel type, e.g. in which rear channel signals are derived from two-channel stereo signals

7/00 **Indicating arrangements; Control arrangements, e.g. balance control**

7/30 . {Control circuits for electronic adaptation of the sound field}

7/301 . . {Automatic calibration of stereophonic sound system, e.g. with test microphone}

7/302 . . {Electronic adaptation of stereophonic sound system to listener position or orientation (H04S 7/301 takes precedence)}

7/303 . . . {Tracking of listener position or orientation}

7/304 . . . . {For headphones}

7/305 . . {Electronic adaptation of stereophonic audio signals to reverberation of the listening space (H04S 7/301 takes precedence)}

7/306 . . . {For headphones}

7/307 . . {Frequency adjustment, e.g. tone control (H04S 7/301 takes precedence)}

7/308 . . {Electronic adaptation dependent on speaker or headphone connection}

7/40 . {Visual indication of stereophonic sound image}

2400/00 **Details of stereophonic systems covered by H04S but not provided for in its groups**

2400/01 . Multi-channel, i.e. more than two input channels, sound reproduction with two speakers wherein the multi-channel information is substantially preserved

2400/03 . Aspects of down-mixing multi-channel audio to configurations with lower numbers of playback channels, e.g. 7.1 -> 5.1 (H04S 2400/01 takes precedence)

2400/05 . Generation or adaptation of centre channel in multi-channel audio systems

2400/07 . Generation or adaptation of the Low Frequency Effect [LFE] channel, e.g. distribution or signal processing

2400/09 . Electronic reduction of distortion of stereophonic sound systems

2400/11 . Positioning of individual sound objects, e.g. moving airplane, within a sound field (H04S 2420/13 takes precedence)

2400/13 . Aspects of volume control, not necessarily automatic, in stereophonic sound systems

2400/15 . Aspects of sound capture and related signal processing for recording or reproduction

2420/00 Techniques used stereophonic systems covered by H04S but not provided for in its groups

2420/01 . Enhancing the perception of the sound image or of the spatial distribution using head related transfer functions [HRTF's] or equivalents thereof, e.g. interaural time difference [ITD] or interaural level difference [ILD]

2420/03 . Application of parametric coding in stereophonic audio systems

2420/05 . Application of the precedence or Haas effect, i.e. the effect of first wavefront, in order to improve sound-source localisation

2420/07 . Synergistic effects of band splitting and sub-band processing

2420/11 . Application of ambisonics in stereophonic audio systems

2420/13 . Application of wave-field synthesis in stereophonic audio systems