

Title (en)

Audio signal processing arrangement for deriving a centre channel signal and also an audio visual reproduction system comprising such a processing arrangement

Title (de)

Tonsignalverarbeitungsanordnung zur Ableitung eines Mittelkanalsignals und audiovisuelles Wiedergabesystem mit solcher Verarbeitungsanordnung

Title (fr)

Dispositif de traitement de signaux audio pour dériver un signal de canal central et système de reproduction audiovisuelle comprenant un tel dispositif de traitement

Publication

EP 0608937 B1 20000412 (EN)

Application

EP 94200122 A 19940119

Priority

- EP 94200122 A 19940119
- EP 93200208 A 19930127

Abstract (en)

[origin: EP0608937A1] The disclosed arrangement comprises a first filter (20) for splitting off signal components from the left channel signal (L) at least within one frequency band. Signal components are split off from the right channel signal (R) by a second filter (23). The output signals of the filters (20 and 23) are compared with the right channel signal (R) and the left channel signal (L) respectively. The filter parameters of the filters (20 and 23) are adjusted to values at which there is maximum correlation between the compared signals according to a given criterion. The centre channel signal is derived in dependence on the filter adjustment. This can be effected by combining the output signals of the filters (20 and 23). In this manner a centre channel signal is obtained formed by the correlating left and right channel signal components, so that the stereo image is hardly disturbed by the addition of the centre channel signal, whereas the perceived position of the virtual sources in the stereo image becomes less dependent on the listener's position with respect to the left and right loudspeakers. <IMAGE>

IPC 1-7

H04S 3/00; **H04S 5/02**

IPC 8 full level

H04S 3/00 (2006.01); **H04S 5/02** (2006.01)

CPC (source: EP)

H04S 5/00 (2013.01); **H04S 2400/05** (2013.01)

Cited by

EP1784048A3; EP2099238A1; DE102014100049A1; CN104350768A; US8615097B2; US8045719B2; US8077815B1; US8368715B2; US11153702B2; WO2015049334A1; WO2007106324A1; US8139774B2; USRE46811E; US8160259B2; US8311238B2; US8189795B2; US8265301B2; US10057701B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0608937 A1 19940803; **EP 0608937 B1 20000412**

DOCDB simple family (application)

EP 94200122 A 19940119