Title (en)

TELEPHONIC TRANSMISSION OF THREE DIMENSIONAL SOUND

Title (de)

FERNSPRECHÜBERTRAGUNG VON DREIDIMENSIONALEM SCHALL

Title (fr)

TRANSMISSION TELEPHONIQUE D'UN SON A TROIS DIMENSIONS

Publication

EP 0968624 A2 20000105 (EN)

Application

EP 98909666 A 19980318

Priority

- GB 9800813 W 19980318
- GB 9705565 A 19970318
- GB 9707962 A 19970419

Abstract (en)

[origin: WO9842161A2] The invention relates to telephonic transmission of 3D sound. Existing video conferencing systems suffer from the disadvantage that following transmission of a person speaking, the speaker's voice tends to become "disembodied". That is, if a person moves with respect to a microphone, the reproduced voice tends not to move with the speaker. The invention overcomes or reduces this effect by obtaining left and right monophonic signals, modifying the signals to compensate for head related air-to-ear transfer functions and performing equalisation and cross-talk cancellation on the signals. Eventually signals are compressed to produce a compressed binaural signal for transmission along a telephone link so that frequencies are split into separate bands, but relative phase differences between signals in different frequency bands are preserved. 3D sounds are therefore able to be transmitted via telephone links, and reproduced more effectively, than was previously possible.

IPC 1-7

H04S 1/00

IPC 8 full level

H04S 1/00 (2006.01)

CPC (source: EP)

H04S 1/00 (2013.01)

Citation (search report)

See references of WO 9842161A3

Designated contracting state (EPC)

CH DE FR GB LI NL SE

DOCDB simple family (publication)

WO 9842161 A2 19980924; **WO 9842161 A3 19981217**; EP 0968624 A2 20000105

DOCDB simple family (application)

GB 9800813 W 19980318; EP 98909666 A 19980318