Title (en)
    DEVICE AND METHOD FOR SUPPRESSING A FEEDBACK

Title (de)
    VORRICHTUNG UND VERFAHREN ZUM UNTERDRÜCKEN EINER RÜCKKOPPLUNG

Title (fr)
    PROCEDE ET DISPOSITIF POUR EMPECHER UNE RETROACTION

Publication
    EP 1518441 A1 20050330 (DE)

Application
    EP 03811364 A 20031106

Priority
    • DE 10254407 A 20021121
    • EP 0312437 W 20031106

Abstract (en)
    [origin: WO2004047484A1] The invention relates to a device for suppressing a feedback in an environment containing a microphone (10) and a
    loudspeaker (13), comprising a device (20), for embedding a test signal in a loudspeaker signal, a microphone signal, or a modified microphone
    signal, preferably using a psychoacoustic marking threshold by means of a pseudo-noise test signal, a device (50) for determining a property of a
    transmission path in the environment between the loudspeaker (13) and the microphone (10), using the embedded test signal and the microphone
    signal, a filter (40), for filtering the loudspeaker signal, to give a filtered loudspeaker signal, whereby the filter may be adjusted with regard to the
    filter characteristics thereof by the determining device (50) to match the same to the properties of the transmission path and a device (30) for
    subtracting the filtered loudspeaker signal from the microphone signal to give a modified microphone signal in which the feedback as a result of the
    loudspeaker is reduced. The feedback suppression concept achieves an effective feedback suppression without a loss in audio quality in particular
    without detracting from the artistic work of an artist.

IPC 1-7
    H04R 3/02; H04R 25/00

IPC 8 full level
    H04R 3/02 (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP)
    H04R 3/02 (2013.01); **H04R 25/453** (2013.01)

Citation (search report)
    See references of WO 2004047484A1

Designated contracting state (EPC)
    AT CH DE FR GB LI NL

DOCDB simple family (publication)
    WO 2004047484 A1 20040603; AT E315323 T1 20060215; AU 2003276271 A1 20040615; DE 10254407 A1 20040617;
    DE 10254407 B4 20060126; DE 50302143 D1 20060330; EP 1518441 A1 20050330; EP 1518441 B1 20060104; HK 1072522 A1 20050826

DOCDB simple family (application)
    EP 0312437 W 20031106; AT 03811364 T 20031106; AU 2003276271 A 20031106; DE 10254407 A 20021121; DE 50302143 T 20031106;
    EP 03811364 A 20031106; HK 05104954 A 20050614