

Title (en)

METHOD AND APPARATUS FOR REMOVING NOISE FROM ELECTRONIC SIGNALS

Title (de)

VERFAHREN UND GERÄT ZUR ENTFERNUNG VON RAUSCHEN AUS ELEKTRONISCHEN SIGNALEN

Title (fr)

PROCEDE ET APPAREIL D'ELIMINATION DE BRUIT DE SIGNAUX ELECTRONIQUES

Publication

**EP 1480589 A1 20041201 (EN)**

Application

**EP 02793985 A 20021121**

Priority

- US 0237399 W 20021121
- US 32220201 P 20011121

Abstract (en)

[origin: WO2004056298A1] A method and system for removing acoustic noise removal (Fig. 5) from human speech is described. Acoustic noise is removed regardless of noise type, amplitude, or orientation. The system includes a processor (30) coupled among microphones (1, 2) and a voice activation detection ("V AD") element (104). The processor executes denoising algorithms that generate transfer functions. The processor (30) receives acoustic data from the microphones (1, 2) and data from the VAD (104) indicates voicing activity and when the VAD indicates no voicing activity. The transfer functions are used to generate a denoised data stream.

IPC 1-7

**A61F 11/06**; G10K 11/16; H03B 29/00; G10L 21/02

IPC 8 full level

**G10K 11/178** (2006.01); **G10L 15/20** (2006.01); **G10L 21/0208** (2013.01); **G10L 25/78** (2013.01); **G10L 21/0216** (2013.01)

CPC (source: EP KR)

**G10L 21/0208** (2013.01 - EP KR); **G10L 25/78** (2013.01 - KR); **G10L 25/78** (2013.01 - EP); **G10L 2021/02165** (2013.01 - EP)

Citation (search report)

See references of WO 2004056298A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 2004056298 A1 20040708**; AU 2002359445 A1 20040714; CN 1589127 A 20050302; EP 1480589 A1 20041201; JP 2005529379 A 20050929; KR 100936093 B1 20100111; KR 20040077661 A 20040906

DOCDB simple family (application)

**US 0237399 W 20021121**; AU 2002359445 A 20021121; CN 02823193 A 20021121; EP 02793985 A 20021121; JP 2004562239 A 20021121; KR 20047007752 A 20021121