

## Title (en)

System and method for separation of a users voice from ambient sound

## Title (de)

System und Verfahren zum Separieren der Stimme eines Benutzers von dem Umgebungston

## Title (fr)

Système et méthode pour séparer la voix d'un utilisateur de le bruit de l'environnement

## Publication

**EP 1640972 A1 20060329 (EN)**

## Application

**EP 05028366 A 20051223**

## Priority

EP 05028366 A 20051223

## Abstract (en)

The invention relates to a system for separation of a user's voice from ambient sound, comprising a device (10) to be worn at the user's ear or at least partly in the user's ear canal (12) comprising a first microphone (M1) oriented outwardly towards the environment and a second microphone (M2) oriented inwardly towards the user's ear canal, and an audio signal processing unit (24, 26) for processing audio signals from the first and second microphone by a blind source separation algorithm adapted to separate the user's voice from ambient sound.

## IPC 8 full level

**G10L 21/02** (2006.01); **G10L 21/0272** (2013.01); **H04R 1/10** (2006.01); **H04R 3/00** (2006.01); **H04R 25/00** (2006.01)

## CPC (source: EP US)

**G10L 21/0272** (2013.01 - EP); **H04R 1/1016** (2013.01 - EP); **H04R 3/005** (2013.01 - EP US); **H04R 25/407** (2013.01 - EP); **H04R 1/1083** (2013.01 - EP); **H04R 2225/0216** (2019.04 - EP US); **H04R 2225/023** (2013.01 - EP); **H04R 2225/025** (2013.01 - EP); **H04R 2225/43** (2013.01 - EP)

## Citation (applicant)

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## Citation (search report)

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## DOCDB simple family (application)

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