

Title (en)  
AUDIO SIGNAL PROCESSING IN A VEHICLE

Title (de)  
AUDIOSIGNALVERARBEITUNG IN EINEM FAHRZEUG

Title (fr)  
TRAITEMENT DE SIGNAL AUDIO DANS UN VÉHICULE

Publication  
**EP 3375204 B1 20190619 (DE)**

Application  
**EP 16788664 A 20161026**

Priority  
• DE 102015222105 A 20151110  
• EP 2016075831 W 20161026

Abstract (en)  
[origin: WO2017080830A1] The present invention relates to a method for audio signal processing in a vehicle (10). In order to allow simple and reliable echo cancellation for voice recognition during simultaneous reproduction of a multichannel audio source signal in a vehicle (10), a mono audio signal is generated on the basis of a multichannel audio source signal. The mono audio signal is limited to a frequency range between a prescribed lower frequency and a prescribed upper frequency, for example to a range from 100 Hz to 8 kHz. The limited mono audio signal is output via multiple loudspeakers (17–20) in the vehicle (10). An influence of the limited mono audio signal that is output via the multiple loudspeakers (17–20) on a voice audio signal received in the vehicle (10) via a microphone (13) is compensated for by means of the limited mono audio signal in an echo canceller (25).

IPC 8 full level  
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**G10L 21/0208** (2013.01 - EP US); **G10L 21/0232** (2013.01 - US); **H04R 3/02** (2013.01 - EP US); **H04R 5/02** (2013.01 - US); **H04S 7/307** (2013.01 - EP US); **G10L 2021/02082** (2013.01 - EP US); **G10L 2021/02161** (2013.01 - EP US); **G10L 2021/02166** (2013.01 - US); **H04R 5/04** (2013.01 - EP US); **H04R 2430/03** (2013.01 - EP US); **H04R 2499/13** (2013.01 - EP US); **H04S 2400/05** (2013.01 - EP US)

Cited by  
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