

Title (en)

DEVICE FOR DETECTING AIRBORNE SOUND FOR AUTOMOTIVE APPLICATIONS IN WHICH THERE ARE AIR FLOWS BETWEEN THE DEVICE AND A SOUND SOURCE OF THE AIRBORNE SOUND, METHOD FOR PRODUCING A DEVICE OF THIS TYPE, AND ROAD VEHICLE THAT CAN BE OPERATED IN AN AUTOMATED MANNER AND THAT COMPRISES A DEVICE OF THIS TYPE

Title (de)

VORRICHTUNG ZUM DETEKTIEREN VON LUFTSCHALL FÜR AUTOMOBILE ANWENDUNGEN, BEI DENEN LUFTSTRÖMUNGEN ZWISCHEN DER VORRICHTUNG UND EINER SCHALLQUELLE DES LUFTSCHALLS VORHANDEN SIND, VERFAHREN ZUR HERSTELLUNG EINER DERARTIGEN VORRICHTUNG UND AUTOMATISIERT BETREIBBARES STRAßENFAHRZEUG UMFASSEND EINE DERARTIGE VORRICHTUNG

Title (fr)

DISPOSITIF POUR DÉTECTER DES BRUITS AÉRIENS POUR DES APPLICATIONS AUTOMOBILES, OÙ IL EXISTE DES ÉCOULEMENTS D'AIR ENTRE LE DISPOSITIF ET UNE SOURCE SONORE DU BRUIT AÉRIEN, PROCÉDÉ DE FABRICATION D'UN DISPOSITIF DE CE TYPE ET VÉHICULE ROUTIER À COMMANDE AUTOMATISÉE COMPRENANT UN DISPOSITIF DE CE TYPE

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Application

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Abstract (en)

[origin: WO202224904A1] The invention relates to a device (AKS) for detecting airborne sound for automotive applications in which there are air flows between the device (AKS) and a sound source of the airborne sound, the device (AKS) comprising: - an acoustic sensor (1); - a protective grille (2) for protecting the device (AKS) from the ingress of foreign bodies; - an acoustically permeable, hydrophobic and/or lipophobic first membrane (5); - a flow bypass (6), which runs between the protective grille (2) and the first membrane (5); - a sound channel (7); and - a circuit board (L), the circuit board (L) comprising components and connections thereof for pre-processing analog or digital signals of the acoustic sensor (1) and a circuit board opening (4), the acoustic sensor (1) being arranged on the circuit board opening on the side of the circuit board (L) that is rearward in the air flow direction (R).

IPC 8 full level

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