

Title (en)  
ACTIVE NOISE REDUCTION APPARATUS AND METHOD FOR A VEHICLE

Title (de)  
AKTIVE RAUSCHUNTERDRÜCKUNGSVORRICHTUNG UND VERFAHREN FÜR EIN FAHRZEUG

Title (fr)  
APPAREIL DE RÉDUCTION ACTIVE DE BRUIT ET PROCÉDÉ POUR UN VÉHICULE

Publication  
**EP 3349210 A1 20180718 (EN)**

Application  
**EP 17151137 A 20170112**

Priority  
EP 17151137 A 20170112

Abstract (en)  
An active noise reduction apparatus (1) for a vehicle comprises a detecting device (11) configured to detect at least one reference signal which is indicative of at least one component of a noise (50) generated at a contact area (41) between a wheel (3) of the vehicle and a track (4) on which the vehicle is travelling, a sound emitting device (13, 13-1, 13-2) for emitting sound waves (60) towards the at least one contact area (41) between the wheel (3) of the vehicle and the track (4) on which the vehicle is travelling, and a control device (12) which is operatively coupled with the detecting device (11) and the sound emitting device (13, 13-1, 13-2). The control device (12) is configured to control the sound emitting device (13, 13-1, 13-2) for emitting sound waves (60) based on the detected at least one reference signal so as to reduce the at least one component of the noise (50) through active noise cancellation by the emitted sound waves (60).

IPC 8 full level  
**G10K 11/178** (2006.01)

CPC (source: EP)  
**G10K 11/178** (2013.01); **G10K 2210/12821** (2013.01)

Citation (applicant)  
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• US 8706351 B2 20140422 - HASEGAWA KOICHI [JP], et al  
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Citation (search report)  
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• [X] DE 20000581 U1 20000824 - GAUERMANN JOERG [DE], et al  
• [XY] US 5598479 A 19970128 - DODT THOMAS [DE], et al  
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Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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