

Title (en)  
AUTOMOTIVE TRIM PART FOR SOUND INSULATION AND ABSORPTION

Title (de)  
Automobilverkleidungsteil zur Schallisolierung und -aufnahme

Title (fr)  
Pièce de garniture d'automobile pour l'isolation sonore et l'absorption

Publication  
**EP 2544922 A1 20130116 (EN)**

Application  
**EP 11708025 A 20110309**

Priority  
• EP 10155905 A 20100309  
• EP 2011053530 W 20110309  
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Abstract (en)  
[origin: EP2364881A1] A sound insulating trim part with at least one area with predominantly sound absorbing characteristics (absorbing area), at least one other area with acoustic mass-spring characteristics (insulating area), characterised in that the mass layer of the absorbing area consists of the same porous fibrous layer as the absorbing area, in the insulating area adjusted to a dynamic Young's modulus (Pa) of at least (96·AW·t) with AW area weight (g/m<sup>2</sup>), and t thickness (mm) of the fibrous layer, and at least an air impermeable thin barrier layer between the fibrous layer and the decoupling layer.

IPC 8 full level  
**B60R 13/08** (2006.01); **B32B 5/02** (2006.01); **B32B 7/00** (2006.01); **G10K 11/168** (2006.01)

CPC (source: EP KR)  
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Citation (search report)  
See references of WO 2011110587A1

Citation (examination)  
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• DAUCHEZ N ET AL: "On measurement of mechanical properties of sound absorbing materials", 2ND BIOT CONFERENCE ON POROMECHANICS,, 26 April 2002 (2002-04-26), pages 1/4 - 4/4, XP007921577  
• BERNARD CASTAGNEDE ET AL: "Effects of compression on the sound absorption of porous materials", APPLIED ACOUSTICS, ELSEVIER PUBLISHING, GB, vol. 61, 1 January 2000 (2000-01-01), pages 173 - 182, XP007921578, ISSN: 0003-682X

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