

Title (en)
ANTIMICROBIAL FILTER MEDIUM AND FILTER MODULE

Title (de)
ANTIMIKROBIELLES FILTERMEDIUM UND FILTERMODUL

Title (fr)
MILIEU FILTRANT ANTIMICROBIEN ET MODULE DE FILTRE

Publication
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Application
EP 12725438 A 20120604

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Abstract (en)
[origin: WO2012168185A1] The invention relates to a filter medium having an antimicrobial effect, in particular for filtering air for the interior of motor vehicles, consisting of at least one first filter layer, in which impurities can be retained, and a second filter layer, which is adjacent to said first filter layer. The second filter layer is applied to the inflow side of the first filter layer and contains antimicrobial substances.

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B01D 2275/10 (2013.01 - EP US)

Citation (search report)
See references of WO 2012168185A1

Citation (examination)
• JP H11235507 A 19990831 - TOYO BOSEKI
• JP 2011000561 A 20110106 - TOYO BOSEKI
• WO 2007043164 A1 20070419 - HONDA MOTOR CO LTD [JP], et al
• KR 20050111691 A 20051128 - HALLA CLIMATE CONTROL CORP [KR]
• DE 102009056511 A1 20110609 - MANN & HUMMEL GMBH [DE]
• DE 10321068 A1 20041230 - MANN & HUMMEL GMBH [DE]

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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