

Title (en)  
MULTI-LAYER COMPOSITE MATERIALS COMPRISING A TEXTILE SHEET MATERIAL, CORRESPONDING METHOD OF PRODUCTION AND USE THEREOF

Title (de)  
MEHRSCICHTIGE VERBUNDMATERIALIEN, DIE EIN TEXTILES FLÄCHENGEBILDE UMFASSEN, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)  
MATÉRIAUX COMPOSITES MULTICOUCHES COMPORTANT UNE STRUCTURE TEXTILE, PROCÉDÉS DE FABRICATION ET UTILISATION DE CES MATÉRIAUX

Publication  
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Application  
**EP 09714595 A 20090223**

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Abstract (en)  
[origin: CA2715498A1] The invention relates to multi-layer composite materials which comprise the following components: (A) a textile sheet material, (B) optionally at least one connecting layer and (C) a polyurethane layer having capillaries that extend through the entire thickness of the polyurethane layer, the textile sheet material (A) and the polyurethane layer (C) being interconnected directly or via the connecting layer (B).

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See references of WO 2009106503A1

Citation (examination)  
• DE 202004019330 U1 20050217 - SCHAEFER PHILIPP [DE]  
• DE 202005003532 U1 20050512 - SCHAEFER PHILIPP [DE]  
• EP 0738747 A1 19961023 - WACKER CHEMIE GMBH [DE]  
• DE 4111715 A1 19911024 - TOYO BOSEKI [JP]  
• DE 102005045047 A1 20070322 - BASF AG [DE], et al  
• DE 102006037415 A1 20080214 - BASF AG [DE]  
• WO 2005047549 A1 20050526 - SCHAEFER PHILIPP [DE]

Citation (third parties)  
Third party :  
• DE 202004019330 U1 20050217 - SCHAEFER PHILIPP [DE]  
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