

Title (en)

Textile laminate, process for its manufacture, its use and hybrid yarns containing webs

Title (de)

Textiler Verbundstoff, Verfahren zu dessen Herstellung, dessen Verwendung sowie Gelege enthaltend Hybridgarne

Title (fr)

Matériau textile laminé, procédé pour sa fabrication, son usage et nappe contenant des fils hybride

Publication

EP 0761859 A1 19970312 (DE)

Application

EP 96112431 A 19960801

Priority

DE 19531001 A 19950823

Abstract (en)

The compound material contains at least a textile fabric of synthetic polymers and at least one random mat structure of yarns. The yarns, at least in one direction, contain reinforcement fibres and deep-melt bonding fibres. Also claimed is a mfg. process where a textile fabric is produced conventionally. At least one random mat is fed to it, with yarns in one direction of reinforcement and deep melt fibres to lie on one surface of the fabric, and a further similar mat can be laid on the other side. A high temp. and/or pressure is applied to the layers so that the bonding fibres melt to give an adhesion between the layers and give the final material its end strength. In the random mat, the bonding fibres are partially melted to bond the laid yarns together at their intersections.

Abstract (de)

Beschrieben wird ein Verbundstoff umfassend mindestens ein textiles Flächengebilde aus Fasern aus synthetischen Polymeren und Hybridgarn, das aus Verstärkungsfasern und tieferschmelzenden Binefasern aufgebaut wird. Des weiteren wird ein Gelege beschrieben, das zumindestens in einer Richtung Hybridgarne aus Verstärkungs- und Binefasern enthält. Die Verbundstoffe lassen sich zur Herstellung von bituminierten Dach- und Dichtungsbahnen einsetzen.

IPC 1-7

D04H 13/00

IPC 8 full level

D04H 3/12 (2006.01); **D04H 5/06** (2006.01); **D04H 13/00** (2006.01)

CPC (source: EP US)

D04H 3/04 (2013.01 - EP US); **D04H 3/12** (2013.01 - EP US); **D04H 3/14** (2013.01 - EP US); **D04H 5/06** (2013.01 - EP US); **Y10S 428/902** (2013.01 - EP US); **Y10T 442/197** (2015.04 - EP US); **Y10T 442/3065** (2015.04 - EP US); **Y10T 442/3667** (2015.04 - EP US); **Y10T 442/608** (2015.04 - EP US)

Citation (search report)

- [PX] EP 0717133 A2 19960619 - HOECHST AG [DE]
- [A] EP 0435001 A2 19910703 - AKZO NV [NL]
- [X] EP 0138294 A2 19850424 - TEXTILE PRODUCTS INC [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 655 (C - 1136) 6 December 1993 (1993-12-06) & DATABASE WPI Section Ch Week 9338, Derwent World Patents Index; Class A83, AN 93-297980

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

DE 19531001 A1 19970227; CA 2183947 A1 19970224; DE 59610999 D1 20040603; EP 0761859 A1 19970312; EP 0761859 B1 20040428; US 5856243 A 19990105

DOCDB simple family (application)

DE 19531001 A 19950823; CA 2183947 A 19960822; DE 59610999 T 19960801; EP 96112431 A 19960801; US 70124396 A 19960822