

Title (en)
High density flat textile structure made of polyester hybrid yarns, process for producing composite materials and use of the flat textile structure

Title (de)
Textile Flächengebilde hoher Dichte aus Polyesterhybridgarnen, Verfahren zur Herstellung von Verbundwerkstoffen und Verwendung der textilen Flächengebilde

Title (fr)
Structure textile plane à haute densité faite de fils hybrides polyester, procédé pour la fabrication de matériaux composites et utilisation de la structure textile plane

Publication
EP 0768406 A1 19970416 (DE)

Application
EP 96115794 A 19961002

Priority
DE 19537703 A 19951011

Abstract (en)
Textile material contains hybrid yarn of polyester reinforcing fibres and low-melting polyester matrix fibres and has a density $D > 0.6 \text{ g/cm}^3$, in which D = the ratio of the mass/unit area in g/cm^2 and the thickness in cm. Also claimed is a method of making composites from this material.

Abstract (de)
Beschrieben werden textile Flächengebilde enthaltend Hybridgarne aus Verstärkungsfasern aus Polyester und aus niedriger schmelzenden Matrixfasern aus Polyester, welche eine hohe Dichte aufweisen und zu Verbundwerkstoffen mit einer sehr guten Einbettung der Verstärkungsfasern in die Matrix verpreßt werden können.

IPC 1-7
D03D 15/00; **D02G 3/04**

IPC 8 full level
D02G 3/04 (2006.01); **D03D 15/00** (2006.01)

CPC (source: EP US)
D02G 3/045 (2013.01 - EP); **D03D 1/02** (2013.01 - EP); **D03D 15/267** (2021.01 - EP); **D03D 15/283** (2021.01 - EP US); **D03D 15/47** (2021.01 - EP US); **D03D 15/56** (2021.01 - EP); **D03D 15/573** (2021.01 - EP US); **D03D 15/587** (2021.01 - EP US); **D10B 2101/06** (2013.01 - EP); **D10B 2101/12** (2013.01 - EP); **D10B 2321/021** (2013.01 - EP); **D10B 2321/022** (2013.01 - EP); **D10B 2331/021** (2013.01 - EP); **D10B 2331/04** (2013.01 - EP); **D10B 2401/041** (2013.01 - EP); **D10B 2401/061** (2013.01 - EP); **D10B 2401/063** (2013.01 - EP); **D10B 2501/04** (2013.01 - EP); **D10B 2505/10** (2013.01 - EP); **D10B 2505/124** (2013.01 - EP); **D10B 2505/18** (2013.01 - EP); **D10B 2505/204** (2013.01 - EP)

Citation (search report)

- [A] EP 0630735 A2 19941228 - BASF CORP [US]
- [AD] DE 4142884 A1 19920702 - BRIDGESTONE CORP [JP]
- [A] EP 0604973 A1 19940706 - HOECHST CELANESE CORP [US]
- [A] DATABASE WPI Section Ch Week 8839, Derwent World Patents Index; Class A32, AN 88-276317, XP002002727, ANONYMOUS: "Prepreg mfr. for mfg. composites - by stacking woven fabric(s) contg. reinforcing and thermoplastic yarns in mould, applying heat and pressure" & RESEARCH DISCLOSURE, vol. 292, no. 015, 10 August 1988 (1988-08-10), EMSWORTH, GB
- [AD] PATENT ABSTRACTS OF JAPAN vol. 16, no. 425 (C - 0982) 7 September 1992 (1992-09-07)
- [AD] PATENT ABSTRACTS OF JAPAN vol. 16, no. 82 (M - 1215) 27 February 1992 (1992-02-27)

Cited by
LU90810B1; GB2451724B; GB2451724A; EP3266914A1; US11060215B2; WO03011654A1; WO9826118A1; WO2020178417A1

Designated contracting state (EPC)
AT BE CH DE DK FR GB IT LI NL

DOCDB simple family (publication)
EP 0768406 A1 19970416; DE 19537703 A1 19970417

DOCDB simple family (application)
EP 96115794 A 19961002; DE 19537703 A 19951011