Title (en)

TEXTILE FABRIC ADAPTED TO BE INTEGRATED IN A REINFORCING TAPE AND MACHINE FOR MAKING SAME

Title (de)

TEXTILES FLÄCHENGEBILDE ZUR EINARBEITUNG IN EINEM KRAFTBAND SOWIE MASCHINE ZU SEINER HERSTELLUNG

Title (fr)

ETOFFE TEXTILE APTE A ETRE INTEGREE DANS UNE ARMATURE DE RENFORCEMENT ET MACHINE POUR LA REALISATION DE TELLES ETOFFES.

Publication

EP 1583857 A1 20051012 (FR)

Application

EP 03815095 A 20031209

Priority

• FR 0303636 W 20031209
• FR 0215510 A 20021209

Abstract (en)

[origin: FR2848227A1] The textile material, made by linking two or more layers of overlaid yarns by thermal adhesion or a similar process has a much higher number of weft yarns than warp yarns, laid at a non-perpendicular angle to one another. The weft yarns are selected for high strength, e.g. of glass, polymer or carbon fibres and are continuous or non-continuous, while the warp yarns are evenly spaced and coated with a thermo-fusible material. The angle between the warp and weft yarns is preferably close to 80 deg, and the material can have two warp layers - one on each side of a weft layer. The weft layer can include bulked yarns or yarns pre-impregnated with a thermoplastic matrix. The textile material is made on a machine (20) with feeders (22, 23) for several warp yarns, which are laid on the outer surface of a cylinder (21), with a system (27 - 29) for applying a number of weft yarns round the cylinder over the warp yarns as they are being moved along it at a speed controlled to regulate the angle between warp and weft yarns. The yarns are then heated by a portion (33) of the cylinder so they adhere together.

IPC 1-7

D03D 13/00

IPC 8 full level

D03D 13/00 (2006.01); **D03D 37/00** (2006.01)

CPC (source: EP)

D03D 13/002 (2013.01); **D03D 37/00** (2013.01); D10B 2505/02 (2013.01)

Citation (search report)

See references of WO 2004063444A1

Cited by

RU2752184C1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2848227 A1 20040611; **FR 2848227 B1 20050422**; AU 2003296789 A1 20040810; EP 1583857 A1 20051012; WO 2004063444 A1 20040729

DOCDB simple family (application)

FR 0215510 A 20021209; AU 2003296789 A 20031209; EP 03815095 A 20031209; FR 0303636 W 20031209