

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

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- 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.

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IPC 8 full level

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