Title (en)

WARP AND WEFT FABRIC BASED ON PREDOMINANTLY UNTWISTED MULTIFILAMENT YARN AND METHOD FOR PRODUCING SAME

Title (de)

GEWEBE MIT KETTE UND SCHUSS AUF BASIS VON TECHNISCHEN MULTIFILAMENTEN GARNEN HAUPTSÄCHLICH OHNE TORSION UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

TISSU CHAINE ET TRAME A BASE DE FILS TECHNIQUES MULTIFILAMENTS A PREDOMINANCE SANS TORSION ET PROCEDE D'OBTENTION

Publication

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Application

EP 94900890 A 19931130

Priority

- FR 9301175 W 19931130
- FR 9214399 A 19921130

Abstract (en)

[origin: WO9412708A1] A warp and weft fabric based on multifilament yarn. At least 80 wt % of the yarn has a combination of the following features: (a) the yarn count, for a given fabric substance, is greater than the conventional yarn count; (b) the yarn twist is no greater than the original twist of the yarn prior to weaving, which yarn, in an equal proportion, has 0 twists per metre; (c) the yarn width over the whole yarn length is at least as great as the original yarn width prior to weaving. Said yarn constitutes all the yarn in the direction comprising the majority by weight of the yarn when the weight ratio of weft yarn to warp yarn is at least 80/20, and all the fabric yarn when said ratio is below 80/20, and the fibre volume ratio is substantially constant in the fabric and at least as high as the volume ratio in a conventional fabric based on yarn with the same or a lower count.

IPC 1-7

D03D 15/00; D03D 3/00; D06C 15/02

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CPC (source: EP US)

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Cited by

CN104894724A; CN103114363A; CN104452034A; WO2011086266A1; WO0040791A1; WO2014135805A1; WO2014135806A1; US9637850B2

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