

Title (en)

Hybrid yarn made of polyamide fibres and reinforcing fibres.

Title (de)

Hybridgarn aus Polyamidfasern und Verstärkungsfasern.

Title (fr)

Fil hybride de fibres en polyamide et de fibres de renforcement.

Publication

EP 0542070 A1 19930519 (DE)

Application

EP 92118673 A 19921031

Priority

- DE 4137406 A 19911114
- US 97045592 A 19921102

Abstract (en)

The invention relates to a hybrid yarn made of reinforcing fibres and matrix-forming thermoplastic fibres of low-viscosity polyamide, in which the individual filaments of the two fibre types are mixed, and which is overwrapped with a further polyamide yarn. It also relates to laid fabrics, woven fabrics, knitted fabrics, braided fabrics and wound packages of this hybrid yarn and also fibre composite materials prepared by consolidation thereof.

Abstract (de)

Die Erfindung betrifft ein Hybridgarn aus Verstärkungsfasern und matrixbildenden Thermoplastfasern aus niedrigviskosem Polyamid, in dem die Einzelfilamente der beiden Faserarten vermischt sind, und welches mit einem weiteren Polyamidgarn umwickelt ist. Sie betrifft ferner Gelege, Gewebe, Gewirke, Geflechte und Wickelkörper aus diesem Hybridgarn sowie daraus durch Konsolidieren hergestellte Faserverbundwerkstoffe.

IPC 1-7

D02G 3/40

IPC 8 full level

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D02G 3/402 (2013.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 428/2931** (2015.01 - EP US); **Y10T 428/2936** (2015.01 - EP US); **Y10T 442/3138** (2015.04 - EP US); **Y10T 442/438** (2015.04 - EP US)

Citation (search report)

- [AD] EP 0156599 A1 19851002 - CELANESE CORP [US]
- [A] EP 0156600 A1 19851002 - CELANESE CORP [US]
- [AD] GB 2105247 A 19830323 - COURTAULDS PLC [GB]

Cited by

DE102007028373A1; DE102007028373B4; EP0768405A1; US5863644A; WO2011134995A1; WO2023012226A3

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