

Title (en)

METHOD AND SYSTEM FOR PRODUCING A MULTI-LAYER, PRE-FIXED THREAD OR FIBRE ARRANGEMENT

Title (de)

VERFAHREN UND ANLAGE ZUR HERSTELLUNG EINES MEHRSCICHTIGEN, VORFIXIERTEN FADEN- ODER FASERGELEGES

Title (fr)

PROCEDE ET UNITE DE PRODUCTION D'UNE STRUCTURE DE FILS OU DE FIBRES MULTICOUCHE, PREFIXEE

Publication

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Application

**EP 02795021 A 20021219**

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Abstract (en)

[origin: WO03056085A1] The invention relates to a method and a system for producing a multi-layer thread or fibre arrangement (GF) which is pre-fixed by means of a loop structure and is used as a strip-type semi-finished product for reinforcing elements consisting of plastic or resin. Said fibre arrangement (GF) comprises layers consisting of stationary weft yarns (K) and layers consisting of thread or fibre warps (S, D, D') which are stretched between conveyor chains in such a way that they are oriented in different directions. The aim of the invention is to reduce the costs and the required surface mass, simultaneously maintaining defined, required flexural strength. To this end, the method is designed in such a way that the stationary weft layer (KR) consisting of fibre or thread warps and oriented parallel to the working direction is located directly adjacent to the needle loops (WN) of the loop structure, and needle loops (WNv) of the loop structure cross the threads or fibres of the stationary weft layer, in the knock-over phase, before the knitting needles (1) penetrate the thread arrangement (G) in order to create a successive row of loops.

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