Title (en)

METHOD FOR HYDRODYNAMICALLY SOLIDIFYING AN ESSENTIALLY HOMOGENOUS LAYER MADE OF FIBRES OF ANY PARTICULAR TYPE AND SYSTEM FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUM HYDRODYNAMISCHEN VERFESTIGEN EINER IM WESENTLICHEN HOMOGENEN SCHICHT AUS FASERN BELIEBIGER ART UND ANLAGE ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE POUR CONSOLIDER DE MANIERE HYDRODYNAMIQUE UNE COUCHE, SENSIBLEMENT HOMOGENE, CONSTITUEE DE FIBRES DE TOUT TYPE ET INSTALLATION POUR LA MISE EN OEUVRE DUDIT PROCEDE

Publication

EP 1668177 B1 20061213 (DE)

Application

EP 04766703 A 20040903

Priority

- EP 2004052040 W 20040903
- DE 10344672 A 20030925

Abstract (en)

[origin: WO2005031056A1] A finite product made of nonwoven material is obtained and the edges thereof are completely solidified, however the central area remains voluminous. This is achieved by advantageous hydrodynamic hardening devoid of binding agents, whereby the nonwoven material exiting from a nonwoven material placement device, such as a carding device, is initially solidified at least on the surface thereon and previously solidified and re-placeable nonwoven material is fully solidified thereon in a continuous double-stepped hydrodynamic hardening process exclusively along longitudinal strips which are arranged at a distance and over-lapping transversal strips which are also arranged at a distance by means of a plurality of rows of water jets. The nonwoven material is cut after treatment in the positions where full solidification occurs, whereupon products are created.

IPC 8 full level

D04H 1/495 (2012.01); **D04H 3/11** (2012.01); **D04H 13/00** (2006.01)

CPC (source: EP US)

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