

Title (en)
DEVICE FOR HYDRODYNAMICALLY STRENGTHENING NONWOVENS, WOVENS OR KNITTED FABRICS

Title (de)
VORRICHTUNG ZUR HYDRODYNAMISCHEN VERFESTIGUNG VON VLIESEN, GEWEBEN ODER GEWIRKEN

Title (fr)
DISPOSITIF DE CONSOLIDATION HYDRODYNAMIQUE DE NON-TISSÉS, TISSUS OU TRICOTS

Publication
EP 2888394 B1 20180627 (DE)

Application
EP 13737139 A 20130709

Priority
• DE 102012016784 A 20120823
• EP 2013002015 W 20130709

Abstract (en)
[origin: WO2014029451A1] The invention relates to a device for hydrodynamically strengthening nonwovens, wovens or knitted fabrics, comprising a base drum (1), which has a plurality of bore holes (4) and on which a structural drum (6) is arranged at a spacing, wherein the distance between the base drum (1) and the structural drum (6) can be produced with a plurality of wires (5, 5', 5'', 5''',...) that are arranged on the surface of the base drum (1) and are at least partially integrally joined to the base drum (1), the wires (5, 5', 5'', 5''',...) being arranged parallel to each other on the surface of the base drum (1), characterised in that the wires (5, 5', 5'', 5''',...) are arranged on the surface of the base drum (1) at an angle alpha of 5° to 45°, preferably 15° to the longitudinal axis of the base drum (1).

IPC 8 full level
D04H 1/492 (2012.01); **D04H 18/04** (2012.01); **D06B 23/02** (2006.01)

CPC (source: EP US)
D04H 1/492 (2013.01 - EP US); **D04H 18/04** (2013.01 - EP US); **D06B 23/026** (2013.01 - US); **D06C 29/00** (2013.01 - EP US)

Cited by
WO2020035257A1; US11788220B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 202013102203 U1 20130606; CN 104204326 A 20141210; CN 104204326 B 20160907; EP 2888394 A1 20150701; EP 2888394 B1 20180627; JP 2015514167 A 20150518; RU 2015109873 A 20161010; US 2015191858 A1 20150709; WO 2014029451 A1 20140227

DOCDB simple family (application)
DE 202013102203 U 20130521; CN 201380018580 A 20130709; EP 13737139 A 20130709; EP 2013002015 W 20130709; JP 2015506127 A 20130709; RU 2015109873 A 20130709; US 201314419485 A 20130709