

Title (en)

Non-woven fabric laying machine and method for laying a non-woven fabric

Title (de)

Vlieslegemaschine und Verfahren zum Legen eines Vlieses

Title (fr)

Machine de pose de non tissu et procédé de pose de non tissé

Publication

**EP 2420604 B1 20190410 (DE)**

Application

**EP 11177226 A 20110811**

Priority

DE 102010034777 A 20100818

Abstract (en)

[origin: EP2420604A2] System for forming nonwoven fiber, comprises a machine (2) comprising at least one disintegrating roller for nonwoven fabric formation, and a delivery system (1) for the formed nonwoven fabric. The axis (3) of the disintegrating roller is arranged at an angle ( $\alpha$ ) between  $+- 8$  to  $+- 80$  to the delivery direction (FFL) of the formed nonwoven fabric. Independent claims are also included for: (1) producing at least two nonwoven fabric layers, which comprises nonwoven fabric of staple fibers, comprising orderly placing the nonwoven fabric layer, and forming the nonwoven fabric layer with a main fiber orientation at an angle to a nonwoven fabric transport direction, and orderly placing another nonwoven fabric layer and forming the nonwoven fabric layer with a main fiber orientation in an approximately opposite angle; and (2) the nonwoven fabric produced by the above method, comprising 2-4 layers made of staple fibers, in which the main fiber orientation of at least two of the layers are intersected in an angle of  $60\text{--}20[\deg]$ .

IPC 8 full level

**D04H 1/732** (2012.01); **D01G 25/00** (2006.01); **D04H 1/74** (2006.01)

CPC (source: EP US)

**D01G 25/00** (2013.01 - EP US); **D04H 1/732** (2013.01 - EP US); **D04H 1/74** (2013.01 - EP US); **Y10T 442/659** (2015.04 - EP US)

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)

**EP 2420604 A2 20120222; EP 2420604 A3 20150218; EP 2420604 B1 20190410;** CN 102517696 A 20120627; CN 102517696 B 20180316; DE 102010034777 A1 20120223; US 2012149272 A1 20120614; US 8590111 B2 20131126

DOCDB simple family (application)

**EP 11177226 A 20110811;** CN 201110286521 A 20110818; DE 102010034777 A 20100818; US 201113211590 A 20110817