

Title (en)

NON-WOVEN FUNNEL FOR COMPRESSING A FIBER NON-WOVEN, HAVING A GUIDING ELEMENT

Title (de)

VLIESTRICHTER ZUM VERDICHTEN EINES FASERVLESSES MIT EINEM LEITELEMENT

Title (fr)

ENTONNOIR À VOILE POUR COMPRIMER UN VOILE DE FIBRES, POURVU D'UN ÉLÉMENT DE GUIDAGE

Publication

EP 3289125 B1 20211117 (DE)

Application

EP 16719048 A 20160420

Priority

- DE 102015106808 A 20150430
- EP 2016058681 W 20160420

Abstract (en)

[origin: WO2016173893A1] The invention relates to a non-woven funnel for compressing a fiber non-woven, in particular on a draw frame, carding machine, or combining machine, comprising an inlet side (2), which is elongate in the x direction and at which the spread fiber non-woven formed of individual fibers enters the non-woven funnel (1), an outlet side (3), which is spaced apart from the inlet side (2) in the z direction and at which the fiber non-woven exits the non-woven funnel (1) as a sliver, an outlet opening (4), which is arranged on the outlet side (3), and at least one guiding surface (5a, 5b) for the fiber non-woven arranged between the inlet side (2) and the outlet side (3), in order to guide the fiber non-woven flowing into the non-woven funnel (1) toward the outlet opening (4). According to the invention, at least one guiding element (6, 12) is arranged in a region between the inlet side (2) and the outlet opening (4), which at least one guiding element limits a motion component of the fiber non-woven in the x direction and/or a motion component of the fiber non-woven in the y direction, wherein the guiding element (6, 12) is arranged in such a way that the guiding element prevents the collision of the fibers against each other at least in the x direction after the fiber non-woven has been redirected toward the outlet opening (4) by means of the guiding surfaces (5a, 5b).

IPC 8 full level

D01H 5/72 (2006.01); **D01G 15/46** (2006.01)

CPC (source: CN EP)

D01G 15/46 (2013.01 - CN EP); **D01H 5/72** (2013.01 - CN EP)

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)

WO 2016173893 A1 20161103; BR 112017021544 A2 20180710; BR 112017021544 B1 20220201; CN 107690489 A 20180213; CN 107690489 B 20210427; DE 102015106808 A1 20161103; EP 3289125 A1 20180307; EP 3289125 B1 20211117; EP 3289125 B8 20211222

DOCDB simple family (application)

EP 2016058681 W 20160420; BR 112017021544 A 20160420; CN 201680033102 A 20160420; DE 102015106808 A 20150430; EP 16719048 A 20160420