

Title (en)

A GARNITURE DEVICE AND A MACHINE AND A METHOD FOR MANUFACTURING MULTI-SEGMENT FILTER RODS

Title (de)

GARNITURVORRICHTUNG UND MASCHINE SOWIE VERFAHREN ZUR HERSTELLUNG VON FILTERSTÄBEN MIT MEHREREN SEGMENTEN

Title (fr)

DISPOSITIF ET MACHINE DE GARNITURE ET PROCÉDÉ DE FABRICATION DE TIGES DE FILTRE MULTISEGMENTS

Publication

**EP 3369325 B1 20230510 (EN)**

Application

**EP 17158866 A 20170302**

Priority

EP 17158866 A 20170302

Abstract (en)

[origin: EP3369325A1] A garniture device for a machine used in tobacco industry for manufacturing a continuous rod (CR) comprising a loose material wrapped with a wrapper, wherein the garniture device comprises: a lower garniture part (7); a garniture duct (9) formed in the lower garniture part (7); a garniture belt movable in the garniture duct (9) for transporting the wrapper along the garniture duct (9); an upper garniture part (11) comprising wrappers (11a) for forming the wrapper (101) around the loose material; wherein the garniture duct (9) comprises: an inlet part for transforming the garniture belt from a flat configuration into a U-shaped configuration; a U-shaped part for guiding the garniture belt in the U-shaped configuration; an outlet part for transforming the garniture belt from the U-shaped configuration into the flat configuration; characterized in that: the U-shaped part of the garniture duct (9) comprises, at the side of the inlet part, a first section (9a) having a first diameter (D1) and, at the side of the outlet part, a second section (9b) having a second diameter (D2) being smaller than the first diameter (D1), wherein the first section (9a) is connected to the second section (D2) by a transition section (9c) having a surface of a variable diameter.

IPC 8 full level

**A24D 3/02** (2006.01); **A24C 5/18** (2006.01)

CPC (source: BR CN EP KR RU US)

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Citation (examination)

US 2003034590 A1 20030220 - ERCELEBI AHMET [US], et al

Citation (opposition)

Opponent : G.D S.p.A.

- EP 1293136 A1 20030319 - HAUNI MASCHINENBAU AG [DE]
- US 4185645 A 19800129 - BOEGLI SERGE [CH], et al
- DE 3235510 A1 19830407 - MOLINS PLC [GB]
- US 3625118 A 19711207 - JACKSON NORMAN WALTER
- US 2003034590 A1 20030220 - ERCELEBI AHMET [US], et al

Designated contracting state (EPC)

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**EP 3369325 A1 20180905**; **EP 3369325 B1 20230510**; BR 102018004169 A2 20181030; CN 108523214 A 20180914; JP 2018143234 A 20180920; KR 102614970 B1 20231215; KR 20180101221 A 20180912; RU 2018107425 A 20190828; RU 2018107425 A3 20210218; RU 2745714 C2 20210330; US 2019008203 A1 20190110

DOCDB simple family (application)

**EP 17158866 A 20170302**; BR 102018004169 A 20180301; CN 201810175846 A 20180302; JP 2018026725 A 20180219; KR 20180024396 A 20180228; RU 2018107425 A 20180228; US 201815909797 A 20180301