

Title (en)

MACHINE FOR INSERTING DISCRETE COMPONENTS INTO A CONTINUOUS CORE OF THE TOBACCO INDUSTRY

Title (de)

MASCHINE ZUM EINSETZEN EINZELNER KOMPONENTEN IN EINEN KONTINUIERLICHEN KERN DER TABAKINDUSTRIE

Title (fr)

MACHINE POUR INTRODUIRE DES COMPOSANTS DISCRETS DANS UN NOYAU CONTINU DE L'INDUSTRIE DU TABAC

Publication

EP 4393325 A1 20240703 (EN)

Application

EP 23214412 A 20231205

Priority

IT 202200025431 A 20221213

Abstract (en)

A device (100) for inserting discrete components into a continuous core of the tobacco industry comprises a forming conveyor (10) extending along a feed direction (A) and defining a guide channel (11) in which the continuous core is made to advance. The device (100) also comprises a spreader (20) which is at least partly inserted in the guide channel (11) so as to be disposed above the continuous core and which is configured to impart a main deformation to an upper region of the continuous core, thereby making a longitudinal groove for accommodating the discrete components. The device (100) also comprises an inserting wheel (30) configured to hold a succession of discrete components and to place the discrete components in the groove in the continuous core. The device (100) also comprises a pre-forming element disposed upstream of the spreader and inserted in the guide channel so as to be disposed above the continuous core. The pre-forming element (40) is configured to impart to an upper region of the continuous core, a predeformation suitable for overlapping with the main deformation.

IPC 8 full level

A24D 3/02 (2006.01)

CPC (source: EP KR)

A24C 5/18 (2013.01 - KR); **A24C 5/1892** (2013.01 - KR); **A24D 3/0216** (2013.01 - EP); **A24D 3/0229** (2013.01 - KR)

Citation (applicant)

- EP 2888957 A1 20150701 - TOBACCO RES & DEV INST PROPRIETARY LTD [ZA]
- WO 2012156911 A1 20121122 - GD SPA [IT], et al

Citation (search report)

- [A] US 2014243178 A1 20140828 - MATERN OLIVER [DE], et al
- [A] US 2012245007 A1 20120927 - HENLEY SHAWN [US], et al
- [AD] EP 2888957 A1 20150701 - TOBACCO RES & DEV INST PROPRIETARY LTD [ZA]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4393325 A1 20240703; JP 2024084730 A 20240625; KR 20240088604 A 20240620

DOCDB simple family (application)

EP 23214412 A 20231205; JP 2023209215 A 20231212; KR 20230178493 A 20231211