

Title (en)
FEEDING MODULE FOR FEEDING SEGMENTS, APPARATUS FOR MANUFACTURING MULTI-SEGMENT ARTICLES AND METHOD OF FEEDING THE SEGMENTS FOR THE MANUFACTURING OF MULTI-SEGMENT ARTICLES

Title (de)
ZUFÜHRMODUL FÜR ZUFÜHRSEGMENTE, VORRICHTUNG ZUR HERSTELLUNG VON MEHRTEILIGEN ARTIKELN UND VERFAHREN ZUM ZUFÜHREN DER SEGMENTE ZUR HERSTELLUNG VON MEHRTEILIGEN ARTIKELN

Title (fr)
MODULE D'ALIMENTATION POUR SEGMENTS, APPAREIL DE FABRICATION D'ARTICLES À SEGMENTS MULTIPLES ET PROCÉDÉ D'ALIMENTATION DES SEGMENTS POUR LA FABRICATION D'ARTICLES À SEGMENTS MULTIPLES

Publication
EP 4374715 A1 20240529 (EN)

Application
EP 22209347 A 20221124

Priority
EP 22209347 A 20221124

Abstract (en)
A feeding module (20, 70) for feeding segments for the manufacture of multi-segment articles adapted to cut a rod (MA, ME) into segments (A, E) and to feed the segments (A, E), comprising a hopper (21, 71) for storing the rods (MA, ME), a receiving drum (22, 72) for receiving the rods (MA, ME) from the hopper (21, 71), a cutting head (24, 74) for cutting the rod (MA, ME) into individual segments (A, E), a shifting drum (25, 75) for varying the mutual position of the segments (A), an aligning drum (26, 76) for forming at least one stream of the segments (A, E), characterised in that the feeding module (20, 70) is provided with feeding channels (110, 116) extending from the hopper (21, 71) to the receiving drum (22, 72), and a filling sensor (115) generating an empty flute (28) signal when the flute (28) of the receiving drum (22, 72) remains empty in the measuring area of the filling sensor (115), furthermore, the feeding module (20, 70) is adapted to feed the rod (MA, ME) into the empty flute (28) of the receiving drum (22, 72) by means of a feeding apparatus (118) situated downstream of the filling sensor (115) in response to a signal of an empty flute (28) of the receiving drum (22, 72).

IPC 8 full level
A24C 5/47 (2006.01); **A24D 3/02** (2006.01)

CPC (source: EP)
A24C 5/471 (2013.01); **A24C 5/475** (2013.01); **A24C 5/478** (2013.01); **A24D 3/0287** (2013.01)

Citation (applicant)
WO 2014188306 A1 20141127 - GD SPA [IT]

Citation (search report)

- [AD] WO 2014188306 A1 20141127 - GD SPA [IT]
- [A] WO 2019105813 A1 20190606 - INT TOBACCO MACHINERY POLAND SP ZOO [PL]
- [A] EP 3632224 A1 20200408 - GD SPA [IT]
- [A] US 4044659 A 19770830 - BARDENHAGEN DIETRICH, et al

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 4374715 A1 20240529; WO 2024110889 A1 20240530

DOCDB simple family (application)
EP 22209347 A 20221124; IB 2023061781 W 20231122