Title (en)

TRAY EMPTYING METHOD FOR TOBACCO INDUSTRY

Title (de)

VERFAHREN ZUM LEEREN VON TABLETTS FÜR DIE TABAKINDUSTRIE

Title (fr)

PROCÉDÉ DE VIDAGE DE PLATEAU POUR L'INDUSTRIE DU TABAC

Publication

EP 2079327 B1 20120222 (EN)

Application

EP 07793962 A 20070817

Priority

- PL 2007000058 W 20070817
- PL 38043906 A 20060818

Abstract (en)

[origin: WO2008020775A1] Rod-like elements are transferred by gravity from a tray to many segments of an intermediate store, the segments being separated from each other with vertical partition walls and then, independently of each other, are emptied through a throat formed within store base, wherein both the intermediate store and its base together with the throat, independently of each other, reciprocate along a receiving conveyor so that consecutive segments of the store could meet the throat, while the segment emptying sequence is in backward relationship to the receiving direction of rod-like elements transported on the conveyor. The rod-like elements are delivered onto the conveyor through a chute firmly connected to the throat whereas the throat has surface that in size complies with horizontal cross section of a segment of the intermediate store and each time receives elements from one consecutive segment, and the complete segment emptying is monitored by a sensor. The width of emptied segments corresponds to the layer height of mass flow of the rod-like elements and placed on the above mentioned conveyor. Furthermore, this invention presents in detail three alternative methods presenting how to empty the above segments in compliance with the mentioned principles.

IPC 8 full level

A24C 5/356 (2006.01)

CPC (source: EP)

A24C 5/356 (2013.01); **A24C 5/358** (2013.01)

Cited by

EP3391759A1; EP3305101A1; KR20180039000A; WO2012002831A1; EP3626086A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008020775 A1 20080221; AT E546055 T1 20120315; EP 2079327 A1 20090722; EP 2079327 B1 20120222; ES 2380642 T3 20120517; PL 211204 B1 20120430; PL 380439 A1 20080303

DOCDB simple family (application)

PL 2007000058 W 20070817; AT 07793962 T 20070817; EP 07793962 A 20070817; ES 07793962 T 20070817; PL 38043906 A 20060818