

Title (en)

A HANDLING MODULE AND A METHOD AND APPARATUS FOR EMPTYING A TRAY FILLED WITH ROD LIKE ARTICLES OF THE TOBACCO INDUSTRY

Title (de)

HANDBABUNGSMODUL UND -VERFAHREN UND VORRICHTUNG ZUM ENTLEEREN EINES MIT STABARTIGEN ARTIKELN DER TABAK VERARBEITENDEN INDUSTRIE GEFÜLLTEN SCHRAGEN

Title (fr)

MODULE DE MANIPULATION ET PROCÉDÉ ET APPAREIL PERMETTANT DE VIDER UN PLATEAU REMPLI D'ARTICLES EN FORME DE TIGE DE L'INDUSTRIE DU TABAC

Publication

**EP 3269261 A1 20180117 (EN)**

Application

**EP 16179248 A 20160713**

Priority

EP 16179248 A 20160713

Abstract (en)

A handling module (19) designed to handle a tray (3, 13) filled with rod like articles (R) of the tobacco industry, comprising a turning unit (10) designed to turn the tray (3, 13), and a lifting unit (11) designed to lift and to lower the turning unit (10), characterised in that the turning unit (10) is adapted to turn the tray (3, 13) during the movement of the lifting unit (11). The objects of the application are also the method and the apparatus (1) for emptying of the tray filled with rod like articles (R) of the tobacco industry, using the handling module (19) according to the invention.

IPC 8 full level

**A24C 5/356** (2006.01)

CPC (source: EP)

**A24C 5/356** (2013.01)

Citation (applicant)

- EP 1118543 B1 20030611 - HAUNI MASCHINENBAU AG [DE]
- WO 2015033264 A1 20150312 - GD SPA [IT]
- GB 2043603 A 19801008 - GD SPA
- EP 1086628 B1 20060621 - HAUNI MASCHINENBAU AG [DE]
- US 3759408 A 19730918 - ROWLANDS T, et al
- EP 1656841 A1 20060517 - HAUNI MASCHINENBAU AG [DE]

Citation (search report)

- [XAY] DE 3338390 A1 19840426 - SASIB SPA [IT]
- [Y] EP 1741352 A1 20070110 - GD SPA [IT]
- [A] DE 102013208407 A1 20141113 - HAUNI MASCHINENBAU AG [DE]
- [A] EP 1508520 A1 20050223 - HAUNI MASCHINENBAU AG [DE]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3269261 A1 20180117; EP 3269261 A8 20180418**

DOCDB simple family (application)

**EP 16179248 A 20160713**