

Title (en)

Device and method for subsequent emptying of containers filled with rod-shaped products

Title (de)

Vorrichtung und Verfahren zum aufeinander folgenden Entleeren von mit stabförmigen Produkten gefüllten Behältern

Title (fr)

Dispositif et procédé de vidage successif de récipients remplis de produits en forme de tiges

Publication

EP 2130445 B1 20121128 (DE)

Application

EP 09075256 A 20090606

Priority

DE 102008027636 A 20080607

Abstract (en)

[origin: EP2130445A1] The device (10) has a feeding unit (11) for feeding containers (14) filled with rod-shaped products. An evacuation unit (12) is arranged below the feeding unit for evacuation of empty containers. A transfer unit (13) is provided with a cartridge (21) which swivels and vertically moves up and down. The cartridge is designed for holding the containers during the entire emptying process. An independent claim is included for a method for sequential emptying of containers filled with rod-shaped products into an emptying repository.

IPC 8 full level

A24C 5/356 (2006.01); **B65G 65/23** (2006.01)

CPC (source: EP)

A24C 5/356 (2013.01)

Cited by

DE102013208407A1; EP2805633B1; EP2805633B2

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

EP 2130445 A1 20091209; EP 2130445 A8 20100217; EP 2130445 B1 20121128; EP 2130445 B9 20130206; CN 101596981 A 20091209; CN 101596981 B 20140430; DE 102008027636 A1 20091210; JP 2009291196 A 20091217; JP 5615517 B2 20141029; PL 2130445 T3 20130430

DOCDB simple family (application)

EP 09075256 A 20090606; CN 200910142686 A 20090605; DE 102008027636 A 20080607; JP 2009135620 A 20090605; PL 09075256 T 20090606