

Title (en)

Method and device for packing tubes or cans

Title (de)

Verfahren und Vorrichtung zum Abpacken von Tuben oder Dosen

Title (fr)

Procédé et dispositif de déballage de tubes ou de boîtes

Publication

EP 2789540 A3 20141126 (DE)

Application

EP 14154054 A 20140206

Priority

- CH 7582013 A 20130411
- CH 10292013 A 20130529

Abstract (en)

[origin: US2014305078A1] A method for packing tubes or cans is proposed which arrive continuously from a production line and are taken over by a transport unit by means of a grouping unit. The transport unit transports the tubes or cans in a desired formation into a retaining hoop of a strapping unit, wherein the retaining hoop is able to grip the formation in a pincer-like movement, whereupon the formation is strapped using a plastic band and transported further. The transport is achieved by means of two spike plates which are used alternately.

IPC 8 full level

B65B 27/04 (2006.01)

CPC (source: EP US)

B65B 13/04 (2013.01 - EP US); **B65B 27/04** (2013.01 - EP US); **B65B 13/186** (2013.01 - EP US); **B65B 13/188** (2013.01 - EP US); **B65B 57/00** (2013.01 - EP US)

Citation (search report)

- [A] DE 2825800 A1 19790920 - ALUSUISSE
- [A] GB 1565132 A 19800416 - ALUSUISSE
- [AD] WO 2005019035 A1 20050303 - TEXA AG [CH], et al
- [A] GB 1370836 A 19741016 - KOCKS GMBH FRIEDRICH

Cited by

CN110466824A

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 2789540 A2 20141015; **EP 2789540 A3 20141126**; **EP 2789540 B1 20160608**; EP 2933197 A1 20151021; EP 2933197 B1 20160907; ES 2587721 T3 20161026; ES 2605506 T3 20170314; HU E030406 T2 20170529; HU E032495 T2 20170928; PL 2789540 T3 20161230; PL 2933197 T3 20170428; US 2014305078 A1 20141016; US 9643744 B2 20170509

DOCDB simple family (application)

EP 14154054 A 20140206; EP 15165767 A 20140206; ES 14154054 T 20140206; ES 15165767 T 20140206; HU E14154054 A 20140206; HU E15165767 A 20140206; PL 14154054 T 20140206; PL 15165767 T 20140206; US 201414197167 A 20140304