

Title (en)
DEVICE AND METHOD FOR OPENING CONTAINERS CONTAINING HETEROGENEOUS MATERIALS

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ÖFFNEN VON BEHÄLTERN MIT HETEROGENEN STOFFEN

Title (fr)
DISPOSITIF ET PROCÉDÉ D'OUVERTURE DE CONTENANTS RENFERMANT DES MATÉRIAUX HÉTÉROGÈNES

Publication
EP 3079994 A1 20161019 (FR)

Application
EP 14825420 A 20141210

Priority
• FR 1362377 A 20131210
• FR 2014053257 W 20141210

Abstract (en)
[origin: CA2932332A1] The invention relates to a device (1) for opening containers (C) comprising: an enclosure (2) which is provided with an inlet (3) for the containers (C) that overhangs an outlet (4), - a rotary tearing tool (10) that is able to open the containers (C) and extends between a lower end (11) and an upper end (12), said tearing tool (10) being mounted by way of its upper end (12), the lower end (11) of said tearing tool (10) being free inside said enclosure (2), - a means (14) for rotating said tearing tool (10), the device (1) being characterized in that said tearing tool (10) has a reference position from which it is liable to move while continuing to carry out its function of opening the containers (C), said tearing tool (10) having a natural tendency to return to its reference position under the action of a return means (34). Opening of containers.

IPC 8 full level
B65B 69/00 (2006.01)

CPC (source: EP KR RU US)
B02C 2/00 (2013.01 - US); **B02C 2/10** (2013.01 - US); **B02C 13/14** (2013.01 - KR); **B02C 18/0084** (2013.01 - US); **B02C 18/10** (2013.01 - US); **B65B 69/0008** (2013.01 - EP KR RU US); **B65B 69/0033** (2013.01 - EP KR US); **B65F 1/12** (2013.01 - US)

Cited by
CN109847876A

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)
FR 3014418 A1 20150612; FR 3014418 B1 20170210; AU 2014363247 A1 20160707; AU 2014363247 B2 20180913; BR 112016013100 A2 20170808; BR 112016013100 B1 20210316; CA 2932332 A1 20150618; CA 2932332 C 20201110; CU 24358 B1 20181004; CY 1120589 T1 20191211; DK 3079994 T3 20180702; DO P2016000129 A 20170215; EP 3079994 A1 20161019; EP 3079994 B1 20180328; ES 2674402 T3 20180629; HR P20180947 T1 20180810; HU E038923 T2 20181228; KR 102326528 B1 20211112; KR 20160098344 A 20160818; LT 3079994 T 20180710; MA 39144 A1 20170929; MA 39144 B1 20180430; MX 2016007646 A 20161128; MY 189732 A 20220228; NZ 721034 A 20210827; PH 12016501049 A1 20160725; PL 3079994 T3 20180928; PT 3079994 T 20180625; RS 57367 B1 20180831; RU 2664837 C1 20180823; SA 516371286 B1 20200816; SG 11201604427T A 20160728; SI 3079994 T1 20180831; TR 201808670 T4 20180723; US 10610867 B2 20200407; US 2016376050 A1 20161229; WO 2015086993 A1 20150618

DOCDB simple family (application)
FR 1362377 A 20131210; AU 2014363247 A 20141210; BR 112016013100 A 20141210; CA 2932332 A 20141210; CU 20160081 A 20141210; CY 181100632 T 20180619; DK 14825420 T 20141210; DO 2016000129 A 20160608; EP 14825420 A 20141210; ES 14825420 T 20141210; FR 2014053257 W 20141210; HR P20180947 T 20180619; HU E14825420 A 20141210; KR 20167018539 A 20141210; LT 14825420 T 20141210; MA 39144 A 20141210; MX 2016007646 A 20141210; MY PI2016702105 A 20141210; NZ 72103414 A 20141210; PH 12016501049 A 20160602; PL 14825420 T 20141210; PT 14825420 T 20141210; RS P20180711 A 20141210; RU 2016127373 A 20141210; SA 516371286 A 20160609; SG 11201604427T A 20141210; SI 201430766 T 20141210; TR 201808670 T 20141210; US 201415102510 A 20141210