

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 MATERIAUX HÉTÉROGÈNES

Publication

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Application

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Priority

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- 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

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B65B 69/0008 (2013.01 - EP KR RU US); **B65B 69/0033** (2013.01 - EP KR US); **B65F 1/12** (2013.01 - US)

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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;
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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;
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