

Title (en)

PACKAGING PROVIDED WITH A SEALED OPENING AND CLOSING DEVICE

Title (de)

VERPACKUNG MIT EINER ABGEDICHTETEN ÖFFNUNGS- UND SCHLIESSVORRICHTUNG

Title (fr)

EMBALLAGE EQUIPE D'UN DISPOSITIF D'OUVERTURE ET DE FERMETURE ETANCHE

Publication

**EP 2663502 A1 20131120 (FR)**

Application

**EP 12702302 A 20120105**

Priority

- FR 1150150 A 20110110
- FR 2012050036 W 20120105

Abstract (en)

[origin: WO2012095593A1] The invention relates to the field of packagings for consumable products, comprising a wall (15) provided with an opening (13). This packaging is provided with an opening and closing device (1) including a body (2) made of a single piece of a moulded material, attached to the wall (15), the body (2) comprising a plate (20) provided with a first hole (30) placed opposite the opening (13) and attached to the edge (19) of the opening (13) of the wall (15) in a sealing manner, and a hatch (40) hinged to said plate (20) opening towards the inside of the packaging and capable of covering said first hole (30) in the closed position, the device (1) also including an arm (50) connected to the hatch (40), the arm (50) engaging with means for locking in a position such as to hold the hatch (40) in the closed position, and releasing the hatch (40) by pivoting towards the inside of the packaging when released from the locking means, the device (1) also including a cover (80) that is separate from the body (2) and the arm (50) and is provided with a safety seal (100, 104) which must be broken during the first opening of the hatch (40), such that if the safety seal is intact, it guarantees that the packaging has never been opened before, since the seal is part of said locking means. The hatch (40) is provided with a second hole (70) which connects the inside and outside of the packaging, and the arm (50) is provided with a seal (57) which sealingly plugs the second hole (70) when the arm (50) engages with the locking means such that, in the closed position, the device (1) sealingly closes the packaging, the seal (57) unplugging the second hole (70) when the arm (50) is released from the locking means and the pivoting angle  $\beta$  of the arm relative to its closed position is greater than a strictly positive threshold angle  $\beta_0$ .

IPC 8 full level

**B65D 17/50** (2006.01)

CPC (source: EP US)

**B65D 17/506** (2013.01 - EP); **B65D 43/265** (2013.01 - US)

Citation (search report)

See references of WO 2012095593A1

Cited by

US9878833B2

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

DOCDB simple family (publication)

**FR 2970239 A1 20120713**; **FR 2970239 B1 20130208**; EP 2663502 A1 20131120; EP 2663502 B1 20141231; ES 2533691 T3 20150414; JP 2014505640 A 20140306; JP 5909242 B2 20160426; PL 2663502 T3 20150630; US 2013320012 A1 20131205; US 8844744 B2 20140930; WO 2012095593 A1 20120719

DOCDB simple family (application)

**FR 1150150 A 20110110**; EP 12702302 A 20120105; ES 12702302 T 20120105; FR 2012050036 W 20120105; JP 2013547897 A 20120105; PL 12702302 T 20120105; US 201213978855 A 20120105