

Title (en)

SEALING DEVICE FOR A CONTAINER NECK

Title (de)

DICHTUNGSVORRICHTUNG FÜR EINEN BEHÄLTERHALS

Title (fr)

DISPOSITIF DE BOUCHAGE POUR UN COL DE RÉCIPIENT

Publication

EP 3416898 A1 20181226 (FR)

Application

EP 17704024 A 20170214

Priority

- FR 1651197 A 20160215
- EP 2017053196 W 20170214

Abstract (en)

[origin: CA3014829A1] The invention relates to a sealing device (1) which includes a tubular skirt (12), suitable for being removably attached to a neck (2) of a container (3) in order to seal said neck, and an annular lip (14), arranged inside the skirt, and suitable for resting sealingly against an inner surface (4B) of the neck when the skirt is attached to the neck. The invention also includes a membrane (21), which is arranged inside the skirt, by extending transversely to the axis, in which one peripheral end (21 A) is connected to the lip in a stationary manner in the direction of the axis by forming a flexible hinge (26) providing a relative connection between the lip and the membrane, said flexible hinge running along the entire periphery of the lip, generally on a geometric plane (P) transverse to the axis, and which is deformable by connecting the flexible hinge between a first stable configuration, in which all of the membrane, except for the peripheral end thereof, is arranged on a first axial side of the geometric plane, rotated opposite a wide mouth (5) of the neck when the skirt is attached to said neck; and a second stable configuration, in which the entire membrane, except for the peripheral end thereof, is arranged on the opposite side of the geometric plane, the axial positioning between the peripheral end of the membrane and the geometric plane being unchanged when the membrane switches between the first and second configurations. In order to reinforce the seal of the interface between the sealing device and the neck, even when the circumstances might damage said seal, the membrane (21) is designed so that, when the skirt is attached to the neck and the lip is resting against the neck, the membrane switches from the first configuration to the second configuration under an overpressure inside the container, and then the membrane, once in the second configuration, presses the lip against the neck.

IPC 8 full level

B65D 41/04 (2006.01)

CPC (source: EP US)

B65D 41/0414 (2013.01 - EP US)

Citation (search report)

See references of WO 2017140637A1

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 3047728 A1 20170818; FR 3047728 B1 20190809; BR 112018014554 A2 20181211; CA 3014829 A1 20170824; CN 108602591 A 20180928; EP 3416898 A1 20181226; MX 2018009168 A 20181119; US 2020062458 A1 20200227; WO 2017140637 A1 20170824

DOCDB simple family (application)

FR 1651197 A 20160215; BR 112018014554 A 20170214; CA 3014829 A 20170214; CN 201780009274 A 20170214; EP 17704024 A 20170214; EP 2017053196 W 20170214; MX 2018009168 A 20170214; US 201716077839 A 20170214