

Title (en)

Lifting device for pressing a container against the filling head of a filling machine

Title (de)

Huborgan zum Anpressen von Gefässen an Gefässfüllmaschinen

Title (fr)

Organe de levage pour appliquer les récipients contre la tête de remplissage d'une machine de remplissage

Publication

**EP 1452480 B1 20061129 (DE)**

Application

**EP 04000924 A 20040117**

Priority

DE 10308156 A 20030226

Abstract (en)

[origin: EP1452480A1] The lifting mechanism (1), to press bottles against bottle filling machines, is in a circular array of units at intervals around a table. Each lifting unit has a plate to support a bottle, and a lifting zone supplied by pressure lines. Limit stops are at and/or within the lifting units, to vary the lifting stroke according to the pressure of the medium in the supply lines. The limit stop has a spring chamber (14) and a moving limit stop sleeve (15) between a cylinder tube (7) and the holder/guide (13). A limit stop (12) is at the tube.

IPC 8 full level

**B65B 3/04** (2006.01); **B67C 3/24** (2006.01)

CPC (source: EP US)

**B67C 3/242** (2013.01 - EP US); **B67C 3/244** (2013.01 - EP US)

Cited by

DE102012104710A1; CN105036030A; EP2949617A1; EP3070048A1; CN114291369A; EP2669243A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 1452480 A1 20040901**; **EP 1452480 B1 20061129**; DE 10308156 A1 20040909; DE 502004002130 D1 20070111; JP 2004256173 A 20040916; JP 4468712 B2 20100526; RU 2004105678 A 20050810; RU 2318721 C2 20080310; US 2004231288 A1 20041125; US 7108025 B2 20060919

DOCDB simple family (application)

**EP 04000924 A 20040117**; DE 10308156 A 20030226; DE 502004002130 T 20040117; JP 2004039470 A 20040217; RU 2004105678 A 20040225; US 78625604 A 20040225