

Title (en)  
VACUUM CYLINDER FOR A LABELING APPARATUS

Title (de)  
VAKUUMZYLINDER FÜR EINE ETIKETTIERVORRICHTUNG

Title (fr)  
CYLINDRE SOUS VIDE POUR DISPOSITIF D'ÉTIQUETAGE

Publication  
**EP 2019785 B1 20120606 (DE)**

Application  
**EP 07725341 A 20070518**

Priority  
• EP 2007004431 W 20070518  
• DE 202006008109 U 20060520

Abstract (en)  
[origin: WO2007134802A2] The invention relates to a vacuum cylinder for a labeling apparatus, comprising a bottom support and a plurality of spaced-apart supporting elements whose longitudinal directions extend essentially perpendicular to the plane of the bottom support. The bottom support is provided with a hole for accommodating a shaft in a rotationally fixed manner while each supporting element is removably connected to the bottom support by means of a first final section. The bottom support is also provided with a plurality of recesses which are disposed between the accommodating hole and the supporting elements in the radial direction of the bottom support.

IPC 8 full level  
**B65C 9/18** (2006.01); **B65C 9/00** (2006.01)

CPC (source: EP US)  
**B65C 9/00** (2013.01 - EP US); **B65C 9/1819** (2013.01 - EP US); **Y10T 156/17** (2015.01 - EP US); **Y10T 156/1744** (2015.01 - EP US); **Y10T 156/1768** (2015.01 - EP US)

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**DE 202006008109 U1 20071004**; CN 101448708 A 20090603; CN 101448708 B 20101215; CN 101811587 A 20100825; CN 101811587 B 20121010; EP 2019785 A2 20090204; EP 2019785 B1 20120606; JP 2009537411 A 20091029; JP 5325772 B2 20131023; US 2009205786 A1 20090820; US 8408267 B2 20130402; WO 2007134802 A2 20071129; WO 2007134802 A3 20080117

DOCDB simple family (application)  
**DE 202006008109 U 20060520**; CN 200780018501 A 20070518; CN 201010180464 A 20070518; EP 07725341 A 20070518; EP 2007004431 W 20070518; JP 2009511387 A 20070518; US 30172007 A 20070518