

Title (en)  
TREATMENT MACHINE FOR TREATING PACKAGING MEANS

Title (de)  
BEHANDLUNGSMASCHINE ZUM BEHANDELN VON PACKMITTELN

Title (fr)  
MACHINE DE TRAITEMENT DESTINÉE AU TRAITEMENT D'EMBALLAGES

Publication  
**EP 2462028 B1 20160713 (DE)**

Application  
**EP 10737271 A 20100714**

Priority

- DE 102009035880 A 20090803
- EP 2010004267 W 20100714

Abstract (en)  
[origin: WO2011015274A2] The invention relates to a device for treating packaging means, particularly in the form of bottles and similar containers, comprising a conveying element that can be used to move the packaging means past at least one treatment module provided on at least one operating position, which module can be coupled to and decoupled from the treatment position, and mechanical coupling and/or centering means determining the position of the at least one treatment module after docking. The invention is characterized in that, in order to detect possible deviations of the treatment module coupled to the treatment machine from the target position, and/or to realign the coupled treatment module into the target position, at least one optical centering and adjusting means is provided, some of the functional elements of which are provided on the treatment module, and some are provided on the treatment machine.

IPC 8 full level  
**B65C 9/00** (2006.01); **B65C 9/40** (2006.01)

CPC (source: EP US)  
**B65C 9/0062** (2013.01 - EP US); **B65C 9/40** (2013.01 - EP US)

Citation (examination)

- DE 10064217 A1 20020704 - SCHUBERT GERHARD GMBH [DE]
- DE 3801032 A1 19890727 - KERMI GMBH [DE]

Cited by  
CN108455219A

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 SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102009035880 A1 20110210**; **DE 102009035880 B4 20120202**; EP 2462028 A2 20120613; EP 2462028 B1 20160713; US 2012080149 A1 20120405; US 8956476 B2 20150217; WO 2011015274 A2 20110210; WO 2011015274 A3 20111020

DOCDB simple family (application)  
**DE 102009035880 A 20090803**; EP 10737271 A 20100714; EP 2010004267 W 20100714; US 201013375502 A 20100714