

Title (en)
Method for gas-tight packing of objects with film close to the objects that can be deep-drawn using a vacuum

Title (de)
Verfahren zum gasdichten Verpacken von Gegenständen mit sich eng an die Gegenstände anlegender, tiefziehbarer Folie unter Einsatz eines Vakuums

Title (fr)
Procédé d'emballage d'objets de manière étanche au gaz à l'aide d'un film emboutissable appliqué contre les objets, sous l'application d'un vide

Publication
EP 2722281 A3 20140702 (DE)

Application
EP 13188316 A 20131011

Priority
DE 102012020359 A 20121017

Abstract (en)
[origin: EP2722281A2] The method involves inserting objects into a shell (6) for closing the shell. A thermoformable film (4) is connected with the shell that is utilized for formation of a packaging with circulating edge (10). The thermoformable film is gas-tightly applied or welded on the circulating edge of the packaging. The thermoformable film is sectioned on a measure smaller or equal to the circulating edge of the packaging, and vacuum is sprayed in a surrounding region of the shell. Positive pressure is applied in the surrounding region of the thermoformable film. Independent claims are also included for the following: (1) a device for gas-tight packing objects with a thermoformable film under application of vacuum (2) a packaging.

IPC 8 full level
B65B 11/52 (2006.01); **B65B 7/16** (2006.01); **B65B 31/02** (2006.01)

CPC (source: EP)
B65B 7/164 (2013.01); **B65B 11/52** (2013.01); **B65B 31/028** (2013.01)

Citation (search report)
• [XY] DE 10237933 A1 20040226 - MULTIVAC HAGGENMUELLER GMBH [DE]
• [Y] US 5155974 A 19921020 - GARWOOD ANTHONY J M [AU]
• [XY] EP 1747995 A1 20070131 - JOERG VON SEGGERN GMBH [DE]
• [X] WO 0038992 A1 20000706 - CRYOVAC INC [US], et al
• [A] WO 9746447 A1 19971211 - GRACE W R & CO [US]
• [A] AT 265973 B 19681025 - INDIVE GMBH [CH]
• [A] FR 2725692 A1 19960419 - AUTOMATISME ASSISTANCE [FR]

Cited by
CN109562850A; EP3034416A1; AU2016229198B2; EP3333090A1; CN108146727A; GB2598347A; EP3405399B1; EP3450328A1; WO2017125282A3; US10913562B2; US10919654B2; WO2016144725A1; WO2022043703A3; US10343797B2; US11787580B2

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)
EP 2722281 A2 20140423; EP 2722281 A3 20140702; EP 2722281 B1 20170111; DE 102012020359 A1 20140417; DK 2722281 T3 20170424; EP 2845809 A1 20150311; ES 2622454 T3 20170706; HU E033769 T2 20171228; LT 2722281 T 20170410; PL 2722281 T3 20170731; PT 2722281 T 20170421

DOCDB simple family (application)
EP 13188316 A 20131011; DE 102012020359 A 20121017; DK 13188316 T 20131011; EP 14195792 A 20131011; ES 13188316 T 20131011; HU E13188316 A 20131011; LT 13188316 T 20131011; PL 13188316 T 20131011; PT 13188316 T 20131011