

Title (en)  
DEEP DRAW PACKAGING MACHINE

Title (de)  
TIEFZIEHVERPACKUNGSMASCHINE

Title (fr)  
MACHINE D'EMBALLAGE PAR EMBOUTISSAGE

Publication  
**EP 3315420 B1 20200415 (DE)**

Application  
**EP 16196154 A 20161028**

Priority  
EP 16196154 A 20161028

Abstract (en)  
[origin: US2018118383A1] A thermo-forming packaging machine having a transport device that is configured to convey a lower film in a film transport surface along a transport direction from a forming station for forming troughs in the lower film via an inserting track for filling the troughs with products to a sealing station for sealing the troughs with an upper film and further to a cutting station for separating the sealed troughs. The film transport surface may include an area that ascends along the transport direction, either between the forming station and the sealing station or following the sealing station. The ascending areas may be followed in the transport direction by an even area. As a result, one of a product feeding device for feeding of products or a packaging discharge device for leading away packages may be positioned particularly close to the lower film.

IPC 8 full level  
**B65B 9/04** (2006.01); **B65B 35/24** (2006.01); **B65B 41/12** (2006.01); **B65B 61/06** (2006.01); **B65B 65/00** (2006.01)

CPC (source: CN EP US)  
**B65B 7/164** (2013.01 - US); **B65B 9/04** (2013.01 - US); **B65B 9/045** (2013.01 - EP US); **B65B 11/50** (2013.01 - CN); **B65B 35/24** (2013.01 - EP US); **B65B 35/44** (2013.01 - CN); **B65B 41/12** (2013.01 - EP US); **B65B 41/14** (2013.01 - CN); **B65B 61/06** (2013.01 - EP US); **B65B 61/065** (2013.01 - CN); **B65B 61/28** (2013.01 - CN US); **B65B 65/003** (2013.01 - EP US)

Cited by  
CN109911273A; CN111186615A

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

DOCDB simple family (publication)  
**EP 3315420 A1 20180502**; **EP 3315420 B1 20200415**; CN 108001722 A 20180508; CN 108001722 B 20200918; ES 2805229 T3 20210211; US 10689136 B2 20200623; US 2018118383 A1 20180503

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**EP 16196154 A 20161028**; CN 201711025330 A 20171027; ES 16196154 T 20161028; US 201715795120 A 20171026