

Title (en)
DEEP DRAW PACKAGING MACHINE

Title (de)
TIEFZIEHVERPACKUNGSMASCHINE

Title (fr)
MACHINE D'EMBALLAGE PAR EMBOUTISSAGE

Publication
EP 3315423 B1 20200415 (DE)

Application
EP 16196156 A 20161028

Priority
EP 16196156 A 20161028

Abstract (en)
[origin: US2018118381A1] 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 through 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 closed troughs. In one embodiment, the film transport surface comprises a first ascending area and a first descending area that is arranged downstream of said ascending area between the forming station and the sealing station. Alternatively or in addition, the film transport surface comprises between the sealing station and the cutting station a second ascending area and after the cutting station a second descending area.

IPC 8 full level
B65B 35/24 (2006.01); **B65B 7/16** (2006.01); **B65B 9/04** (2006.01); **B65B 41/12** (2006.01); **B65B 61/06** (2006.01); **B65B 65/00** (2006.01); **B31B 105/00** (2017.01); **B31B 120/40** (2017.01)

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
CN112572887A; CN114408306A; CN114671090A

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 3315423 A1 20180502; **EP 3315423 B1 20200415**; CN 108016644 A 20180511; CN 108016644 B 20200228; ES 2802999 T3 20210122; US 10683111 B2 20200616; US 2018118381 A1 20180503

DOCDB simple family (application)
EP 16196156 A 20161028; CN 201711020802 A 20171027; ES 16196156 T 20161028; US 201715795161 A 20171026