

Title (en)

METHOD FOR OPERATING A DEEP DRAW PACKAGING MACHINE

Title (de)

VERFAHREN ZUM BETRIEB EINER TIEFZIEHVERPACKUNGSMASCHINE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UNE MACHINE D'EMBALLAGE PAR EMBOUTISSAGE

Publication

EP 3210896 B1 20181212 (DE)

Application

EP 16172828 A 20160603

Priority

- DE 202016000757 U 20160203
- EP 16167440 A 20160428

Abstract (en)

[origin: US2017217616A1] A thermoform packaging machine comprising a forming station for producing troughs in a bottom film, a sealing station for sealing troughs that contain a product, and at least one cutting station arranged on a machine frame. The thermoform packaging machine may include at least two clamp chains for holding and conveying the bottom film in a production direction through the packaging machine. The clamp chains may be guided by chain guides that extend at least from the forming station along an infeed line to the sealing station. Each chain guide may include an upper guide surface and a lower guide surface between which a respective one of the clamp chains is guided. In one embodiment, the chain guides are oriented horizontally at and along both the forming station and the sealing station and the chain guide ascends from the forming station to the sealing station along the infeed line.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (opposition)

Opponent : GEA Food Solutions Germany GmbH,

- EP 2412632 A1 20120201 - MULTIVAC HAGGENMUELLER GMBH [DE]
- EP 2740677 A1 20140611 - MULTIVAC SEPP HAGGENMÜLLER GMBH & CO KG [DE]
- WO 2007125411 A2 20071108 - SALA GIANMARIO [IT]
- DE 202016000757 U1 20160310 - MULTIVAC SEPP HAGGENMÜLLER SE & CO KG [DE]
- WO 2013110667 A2 20130801 - GEA CFS GERMANY GMBH [DE]
- DE 10224237 A1 20031211 - CONVENIENCE FOOD SYS WALLAU [DE]
- DE 102006005405 A1 20070809 - MULTIVAC HAGGENMUELLER GMBH [DE]
- WO 03057602 A1 20030717 - CFS GMBH KEMPTEN [DE], et al
- EP 0422635 A1 19910417 - STREAM SRL [IT]
- EP 0186986 A1 19860709 - THURNE ENG CO LTD [GB]
- WO 9823510 A1 19980604 - FORMAX INC [US]
- EP 16167440 A 20160428

Designated contracting state (EPC)

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DOCDB simple family (publication)

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