

Title (en)
Deep draw packaging machine and method

Title (de)
Tiefziehverpackungsmaschine und Verfahren

Title (fr)
Machine d'emballage par emboutissage et procédé

Publication
EP 2860119 B1 20160831 (DE)

Application
EP 13187888 A 20131009

Priority
EP 13187888 A 20131009

Abstract (en)
[origin: US2015096263A1] The invention relates to a thermo-forming packaging machine with a controller, a first forming station for forming a tray into a base film and a second motor-adjustable forming station for forming a lid into a top film. A first detection device detects the marking of the base film for controlling a film advance step of the tray associated with this marking into the sealing station.

IPC 8 full level
B65B 41/18 (2006.01); **B65B 9/04** (2006.01); **B65B 41/16** (2006.01); **B65B 47/00** (2006.01); **B65B 57/04** (2006.01); **B65B 57/06** (2006.01); **B65B 61/02** (2006.01)

CPC (source: EP US)
B65B 9/04 (2013.01 - EP US); **B65B 41/16** (2013.01 - EP US); **B65B 47/00** (2013.01 - EP US); **B65B 57/04** (2013.01 - EP US); **B65B 61/025** (2013.01 - EP US)

Citation (opposition)
Opponent : GEA Food Solutions Germany GmbH
• DE 2437127 A1 19760219 - MULTIVAC HAGGENMUELLER KG
• EP 0569933 A1 19931118 - MULTIVAC HAGGENMUELLER KG [DE]
• WO 2012116823 A1 20120907 - GEA CFS GERMANY GMBH [DE], et al
• EP 2551203 A1 20130130 - MULTIVAC HAGGENMUELLER GMBH [DE]
• EP 1513729 B1 20070404 - MULTIVAC HAGGENMUELLER GMBH [DE]

Cited by
DE102017125077A1; WO2018019700A1; EP3476753A1; EP3109017A1; CN109775002A; EP3708505A1; EP3428079A1; CN109250224A; US11418359B2; US11505342B2; US11318524B2; WO2018114064A1; WO2020229355A1; WO2023046883A3; US11008122B2; US10766655B2; EP3471904B1; EP3109017B1; EP3560149B1; EP3560149B2

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