

Title (en)
PACKAGING METHOD AND DEVICE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM VERPACKEN

Title (fr)
PROCEDE ET DISPOSITIF D'EMBALLAGE

Publication
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Application
EP 03732373 A 20030514

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Abstract (en)
[origin: WO2004000650A1] The invention relates to a method for packaging an item by means of packaging formed from a shrinkable lower film (7) and an upper film (10). The lower film is deep-drawn to form a container receiving the item and an upper film is supplied for covering purposes once the item has been placed therein. The packaging thus formed is sealed in an evacuating and sealing station. In order to remove the film section arising between the part of the lower and upper film directly adjacent to said item and the edge of the seal (16), post-shrinkage occurs by impinging heat upon said packaging on all sides after evacuation and sealing. The invention also relates to a corresponding device for carrying out said method.

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B65B 9/04 (2013.01 - EP US); **B65B 31/021** (2013.01 - EP US); **B65B 53/02** (2013.01 - EP US); **B65B 25/065** (2013.01 - EP US)

Citation (third parties)
Third party :
• EP 0062822 A2 19821020 - WOLFF WALSRÖDE AG [DE]
• EP 0569937 A1 19931118 - MULTIVAC HAGGENMUELLER KG [DE]
• DUPONT: "Neue Tiefzieh- und Schrumpffolie führt zu neuen Formen der Lebensmittelverpackung", BROSCUERE DER FIRMA DUPONT, pages 1 - 8, XP002990627
• DIETER FLIEGER: "Neue Tiefzieh- u. Schrumpffolie für die Lebensmittelverpackung", DIE FLEISCHEREI, no. 11, 1983, pages 942, 944, XP002990628
• KRESS G.: "Extrudieren von Schlauchfolien", VDI-VERLAG GMBH VERLAG DES VEREINS DEUTSCHER INGENIEURS, 1973, DOSSELDORF, pages 1-4, 168 - 191, XP003000653
• See also references of WO 2004000650A1

Cited by
CN108528787A; DE202010010834U1; EP2412643A1; EP2860119A1; EP2860119B1

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