

## Title (en)

Method and device for producing flexible packaging products, in particular packaging bags

## Title (de)

Verfahren und Vorrichtung zur Herstellung flexibler Verpackungserzeugnisse, insbesondere Verpackungsbeutel

## Title (fr)

Procédé et dispositif de fabrication d'ébauche d'emballage, notamment de sac d'emballage

## Publication

**EP 2965900 A1 20160113 (DE)**

## Application

**EP 14176376 A 20140709**

## Priority

EP 14176376 A 20140709

## Abstract (en)

[origin: WO2016005375A1] The method serves for producing flexible packaging products, more particularly packaging bags, the packaging products being formed by welding together two film layers. In order to avoid imprecisions in the sequence of process steps, film sections (4) formed of film layers are separated from a film web (7a; 7b) and transferred to a transport device (1) where they are positively fixed at least at one edge by means of a fixing device (3). Then the film sections (4) are transported by means of the transport device (1) in a transport direction (5) to at least one welding station (12) while maintaining the positive fit, the film layers are welded together in the latter, and the film sections (4) are subsequently further transported while maintaining the positive fit.

## Abstract (de)

Das Verfahren dient zur Herstellung flexibler Verpackungserzeugnisse, insbesondere Verpackungsbeutel, wobei die Verpackungserzeugnisse durch Verschweißen zweier Folienlagen gebildet werden. Um Ungenauigkeiten bei der Abfolge der Arbeitsschritte zu vermeiden, werden durch Folienlagen gebildete Folienabschnitte (4) von einer Folienbahn (7a; 7b) abgetrennt, einer Transportvorrichtung (1) übergeben und dort an mindestens einem Rand mit einer Fixiereinrichtung (3) formschlüssig fixiert. Dann werden die Folienabschnitte (4) mittels der Transportvorrichtung (1) in einer Transportrichtung (5) unter Aufrechterhaltung des Formschlusses zu mindestens einer Schweiss-Station (12) transportiert, die Folienlagen dort miteinander verschweisst und die Folienabschnitte (4) anschliessend unter Aufrechterhaltung des Formschlusses weiter transportiert.

## IPC 8 full level

**B31B 19/02** (2006.01); **B65H 5/16** (2006.01)

## CPC (source: CN EP US)

**B31B 70/005** (2017.07 - CN EP US); **B31B 70/642** (2017.07 - EP US); **B65H 5/021** (2013.01 - CN EP US); **B65H 5/16** (2013.01 - CN EP US); **B65H 20/20** (2013.01 - US); **B65H 29/16** (2013.01 - CN EP US); **B31B 70/006** (2017.07 - US); **B31B 70/02** (2017.07 - EP US); **B31B 70/04** (2017.07 - US); **B31B 70/10** (2017.07 - EP US); **B31B 70/16** (2017.07 - EP US); **B31B 70/64** (2017.07 - US); **B31B 2150/00** (2017.07 - EP US); **B31B 2150/002** (2017.07 - EP US); **B31B 2160/10** (2017.07 - EP US); **B31B 2160/102** (2017.07 - EP US); **B31B 2160/106** (2017.07 - EP US); **B65H 2404/234** (2013.01 - CN EP US); **B65H 2404/264** (2013.01 - CN EP US); **B65H 2404/3141** (2013.01 - CN EP US); **B65H 2406/34** (2013.01 - CN EP US); **B65H 2701/191** (2013.01 - CN EP US)

## Citation (search report)

- [A] US 3448666 A 19690610 - KAPPELHOFF HERMANN, et al
- [A] DE 4141466 A1 19930617 - WINDMOELLER & HOELSCHER [DE]
- [A] WO 2009121838 A1 20091008 - WINDMOELLER & HOELSCHER [DE], et al
- [A] US 5667122 A 19970916 - YOUNG JR WILLIAM O [US], et al
- [A] EP 1880834 A1 20080123 - TOYO BOSEKI [JP]

## Cited by

EP3456529A1

## 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

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**EP 2965900 A1 20160113**; CN 106536387 A 20170322; CN 106536387 B 20180626; EP 3172044 A1 20170531; EP 3172044 B1 20180606; ES 2680473 T3 20180907; JP 2017528338 A 20170928; PT 3172044 T 20180803; TR 201811312 T4 20180827; US 2017157881 A1 20170608; WO 2016005375 A1 20160114

## DOCDB simple family (application)

**EP 14176376 A 20140709**; CN 201580037509 A 20150707; EP 15734391 A 20150707; EP 2015065452 W 20150707; ES 15734391 T 20150707; JP 2017500842 A 20150707; PT 15734391 T 20150707; TR 201811312 T 20150707; US 201515324238 A 20150707