

Title (en)

METHOD AND APPARATUS FOR PACKAGING ARTICLES BY MEANS OF AN ENVELOPE MADE OF A THERMOPLASTIC FILM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERPACKEN VON GEGENSTÄNDEN MITTELS EINER HÜLLE AUS THERMOPLASTISCHER FOLIE

Title (fr)

PROCEDE ET APPAREIL POUR EMBALLER DES ARTICLES AU MOYEN D'UNE ENVELOPPE EN FILM THERMOPLASTIQUE

Publication

EP 1183183 B2 20090909 (EN)

Application

EP 00954410 A 20000522

Priority

- EP 0004659 W 20000522
- IT PI990031 A 19990521

Abstract (en)

[origin: WO0076848A2] The method allows, in a completely automatic way, to form the envelopes of size of the article without leaving space between the welding line and the article. The steps are provided of: in a feeding direction arranging at least a web (30) of continuous film that can be welded thermoplastically according to two continuous wings overlapping each other in order to present a longitudinal closed continuous line. The folded web (38) has a front closed end transversally in a previous step. Thermoplastic cutting and welding means are provided (52) transversal to the web. After opening a part from each other the wings opposite to the continuous longitudinal closed edge (33) an article (10) is inserted to be packaged that is arranged along the web between the thermoplastic cutting/welding means (52) and the front closed end (38). Then, at the level of the thermoplastic cutting/welding means (52), there is the transversal pinching (53) of the folded web by means of a transversal gripper (53), leaving the web (30) free of sliding through the gripper. Then, there is the pulling of the web upstream of (45) the transversal gripper and the drawing back of the web that slides through the gripper until a front edge of the article contacts the front closed end. Then, there is a further drawing back step of the web until a rear edge of the article contacts the transversal gripper. Follows the transversal cutting and welding of the web next to the transversal gripper whereby an envelope is formed closed at three sides around the article. In this step no elements are present for supporting the article, against the transversal gripper, thus using the gripper same as blocking means. Finally, the envelope is dragged away and further web is fed, the transversal cutting and welding creating a closed front end in the web.

IPC 8 full level

B65B 1/00 (2006.01); **B65B 9/093** (2012.01); **B65B 59/02** (2006.01)

CPC (source: EP US)

B65B 9/093 (2013.01 - EP US)

Citation (opposition)

Opponent :

- IT 1304430 B1 20010319 - CORTESE CARMELO ANGELO [IT]
- DE 2317257 A1 19741031 - STAHLCKER HANS, et al
- AT 252819 B 19670310 - ELECTRONIC GES FUER HOCHFREQUE

Designated contracting state (EPC)

ES IT

DOCDB simple family (publication)

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