

Title (en)

DEVICE AND METHOD FOR INTRODUCING PROJECTING ELEMENTS OF A FILM

Title (de)

VORRICHTUNG UND VERFAHREN ZUM EINBRINGEN VON FOLIENÜBERSTÄNDEN

Title (fr)

DISPOSITIF ET PROCEDE POUR AJOUTER DES SAILLIES DE FILM

Publication

EP 1361980 A1 20031119 (DE)

Application

EP 02703601 A 20020221

Priority

- DE 20103153 U 20010222
- EP 0201813 W 20020221

Abstract (en)

[origin: WO02068268A1] The invention relates to a device and a method for introducing projecting elements (5) belonging to a section of a film (3) which surrounds laterally and at least partially the upper side of a stack of products (1) and which is adjacent to the stack of products in said area. In order to prevent the projecting elements, also known as tips or caps, from becoming fixed to the sides or to the upper side of the stacks of products, the triangular projecting elements, which are arranged in the region of two opposite-lying edges of the upper side of the stack of products and which emanate approximately in the corners of the stacks of products, are introduced into the area arranged between the stack of products and the section of the film, after the pile of products is enveloped.

IPC 1-7

B65B 9/13; B65D 71/00

IPC 8 full level

B65B 9/13 (2006.01); B65B 11/58 (2006.01); B65B 49/04 (2006.01); B65D 71/00 (2006.01)

CPC (source: EP US)

B65B 11/585 (2013.01 - EP US); B65B 49/04 (2013.01 - EP US)

Citation (search report)

See references of WO 02068268A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 20103153 U1 20010607; AT E297346 T1 20050615; CN 1282589 C 20061101; CN 1492822 A 20040428; CZ 20032519 A3 20040114; CZ 303851 B6 20130529; DE 50203337 D1 20050714; DK 1361980 T3 20051010; EP 1361980 A1 20031119; EP 1361980 B1 20050608; MX PA03007485 A 20031204; PL 207014 B1 20101029; PL 363278 A1 20041115; US 2004055258 A1 20040325; US 2005210841 A1 20050929; US 6945016 B2 20050920; US 7200979 B2 20070410; WO 02068268 A1 20020906

DOCDB simple family (application)

DE 20103153 U 20010222; AT 02703601 T 20020221; CN 02805421 A 20020221; CZ 20032519 A 20020221; DE 50203337 T 20020221; DK 02703601 T 20020221; EP 0201813 W 20020221; EP 02703601 A 20020221; MX PA03007485 A 20020221; PL 36327802 A 20020221; US 13056005 A 20050517; US 46842403 A 20030818