

Title (en)  
ORIENTATION UNIT AND METHOD FOR CAUSING A CHANGE IN ORIENTATION OF A PARALLELEPIPED-SHAPED ARTICLE IN A PACKING MACHINE

Title (de)  
AUSRICHTUNGSEINHEIT UND METHODE ZUR AUSRICHTUNGS ÄNDERUNG EINES PARALLELEPIPEDONFÖRMIGE BEHÄLTER IN EINE VERPACKUNGSMASCHINE

Title (fr)  
DISPOSITIF D'ORIENTATION ET METHODE POUR CHANGEMENT DE ORIENTATION D'OBJET REMPLIS DE FORME PARALLÉLEPIPÉDIQUE DANS UNE MACHINE D'EMBALLAGE

Publication  
**EP 3222532 B2 20230816 (EN)**

Application  
**EP 17162182 A 20170321**

Priority  
IT UA20161855 A 20160321

Abstract (en)  
[origin: EP3222532A1] Orientation unit (16) and method for causing a change in orientation of a parallelepiped-shaped article (3) in a packing machine (12); the orientation unit (16) having: an input station (S1) in which the article (3) is oriented according to an input plane (A); an output station (S2) in which the article (3) is oriented according to an output plane (B); and an orientation drum (17) which can rotate around a rotation axis (18) and supports a parallelepiped-shaped pocket (19) which advances along an orientation path (P1) between the input station (S1) and the output station (S2); the rotation axis (18) of the orientation drum (17) is arranged obliquely, i.e. neither parallel nor perpendicular with respect to the input plane (A) and to the output plane (B) and/or the rotation axis (18) of the orientation drum (17) is arranged obliquely, i.e. neither parallel nor perpendicular with respect to the walls of the pocket (19).

IPC 8 full level  
**B65B 19/22** (2006.01); **B65B 35/56** (2006.01)

CPC (source: EP)  
**B65B 19/223** (2013.01); **B65B 35/56** (2013.01)

Citation (opposition)

- Opponent :
- EP 1393082 A1 20040303 - CONTINENTAL TEVES AG & CO OHG [DE]
  - EP 1889784 A1 20080220 - GD SPA [IT]
  - DE 1556624 A1 19700226 - MOLINS MACHINE CO LTD
  - EP 2460747 A1 20120606 - FAMECCANICA DATA SPA [IT]
  - US 2195625 A 19400402 - KNAGGS DONALD W
  - EP 2726376 B1 20151028 - GD SPA [IT]
  - DE 102008041109 A1 20100211 - BOSCH GMBH ROBERT [DE]
  - EP 2716555 A1 20140409 - GD SPA [IT]
  - EP 0900731 A2 19990310 - GD SPA [IT]

Cited by  
IT202000024430A1; EP3725691A1; IT202000024433A1; EP4043350A1; IT202100002912A1; IT201900005956A1; DE102021126492A1; DE102021126496A1; EP3725691B1

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