

Title (en)

APPARATUS FOR THE AUTOMATIC DISPENSING AND SEMI-AUTOMATIC REPOSITIONING OF COMMERCIAL PRODUCTS

Title (de)

VORRICHTUNG FÜR DIE AUTOMATISCHE AUSGABE UND HALBAUTOMATISCHE NEUANORDNUNG VON HANDELSPRODUKTEN

Title (fr)

INSTALLATION POUR LA DISTRIBUTION AUTOMATIQUE ET LE REPOSITIONNEMENT SEMI-AUTOMATIQUE DE PRODUITS COMMERCIAUX

Publication

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Application

EP 09745864 A 20090512

Priority

- ES 2009000253 W 20090512
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Abstract (en)

[origin: EP2287814A1] The invention relates to an installation for the automatic dispensing and semiautomatic replacement of commercial products, of the type of products presented in parallelepiped boxes, such as certain pharmaceutical, electronic or food products; formed by at least one inclined shelf (8) on which the products (10) to be dispensed are located, which products are separated into lanes by adjustable guides (6) and supported one after the other as they slide over the shelf (8); at least one individual dispensing element for each lane; each dispensing element being provided with autonomous control electronics, a presence detection sensor (2), an electromagnetic actuator device (1), a front light indicator (4), a stop (11) for braking the products (10) on the inclined shelf (8) and connectors for the interconnection thereof with other dispensing elements; and at least one light indicator (13) for each lane, located at the rear part of the shelf (8), linked with a bar code reader for the bar code located on each product (10); all this such that the control electronics generates the activation of the electromagnetic actuator device (1), which raises the corresponding product (10) to be dispensed above the stop (11), causing its exit from the lane and the positioning, by gravity, of a new product on the actuator device (1); whereas the rear light indicator (13), according to the information provided by the bar code reader (26), optically notifies the lack of products in a lane, the replacement thereof and/or breakdowns.

IPC 8 full level

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Citation (search report)

- [I] WO 9714393 A1 19970424 - ADDS INC [US], et al
- [A] US 6181982 B1 20010130 - YUYAMA SHOJI [JP], et al
- [I] WO 2004036516 A1 20040429 - TECNY FARMA SA [ES], et al
- [I] DE 1908003 A1 19700827 - DEMAG ZUG GMBH
- [I] US 2004225409 A1 20041111 - DUNCAN MARK KEVIN [US], et al
- [A] US 2003109956 A1 20030612 - SPANO PHILIP H [US], et al
- See references of WO 2009138538A1

Cited by

EP3938301A4; EP3135610A1; AU2016313018B2; WO2017032592A1; US10071859B2; US10414588B2

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