

Title (en)

Handling assembly, particularly for automatic machines

Title (de)

Handhabungsanordnung, insbesondere für automatische Maschinen

Title (fr)

Ensemble de manipulation, en particulier pour des machines automatiques

Publication

EP 2384978 A1 20111109 (EN)

Application

EP 11164397 A 20110502

Priority

IT BO20100273 A 20100503

Abstract (en)

A handling assembly, particularly for automatic machines, comprising means (2) for moving, along a line (3), elements (4) for gripping products (5). The line (3) comprises at least one outbound portion (3a) and at least one return portion (3b), which are interposed between an upstream station (A), for picking up the products (5), and a downstream station (B), for discharging them. The movement means (2) comprise independent driving units (6) for the grip elements (4), the grip elements (4) being adapted to handle the products (5) in a suspended configuration; each driving unit (6) is associated with at least one respective grip element (4), for the independent movement, even in opposite directions, of each one of the grip elements (4) along the line (3), which is interposed preferably between two substantially different heights.

IPC 8 full level

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CPC (source: EP)

B65B 5/08 (2013.01); **B65B 5/105** (2013.01); **B65B 35/16** (2013.01); **B65B 21/12** (2013.01)

Citation (search report)

- [XAY] DE 102005046603 A1 20070405 - BOSCH GMBH ROBERT [DE]
- [Y] US 4294057 A 19811013 - WINIASZ MICHAEL E, et al
- [A] DE 19648447 A1 19980528 - BOSCH GMBH ROBERT [DE]

Cited by

CN115258255A

Designated contracting state (EPC)

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