

Title (en)

Device selecting groups of objects for feeding packaging machines and respective selection method

Title (de)

Sortierer für Gruppen von Gegenständen für Verpackungsmaschinenzufuhr und entsprechendes Verfahren

Title (fr)

Dispositif sélecteur de groupes d'objets pour alimenter des machines de conditionnement et procédé correspondant

Publication

**EP 2199217 A1 20100623 (EN)**

Application

**EP 09178660 A 20091210**

Priority

IT MI20082213 A 20081212

Abstract (en)

A selector device of groups of objects for feeding packaging machines comprises a plurality of independent selection units (20 i ), arranged according to rows side-by-side and parallel to each other, and a spacer belt conveyor (30) associated to a compacting pusher (32), wherein each of the independent selection units (20 i ) comprises a conveyor (21 i ), a feedback motor (22 i ) and a photocell (23 i ) for controlling the position of a first object (100) in the longitudinal feeding direction (F), and wherein the spacer belt (30) comprises its own motor (31) for feeding the objects (100) at a higher speed with respect to the selection units (20 i ). A selection method of groups of objects for feeding packaging machines is also an object of the present invention.

IPC 8 full level

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CPC (source: EP US)

**B65B 21/06** (2013.01 - EP); **B65B 35/44** (2013.01 - EP US); **B65B 59/001** (2019.04 - EP US); **B65B 59/005** (2013.01 - EP US)

Citation (applicant)

US 5667055 A 19970916 - GAMBETTI MARIO [IT]

Citation (search report)

- [A] US 5667055 A 19970916 - GAMBETTI MARIO [IT]
- [A] US 2004154902 A1 20040812 - SCHOENECK RICHARD JEROME [US], et al
- [A] US 3194382 A 19650713 - NIGRELLI BIAGIO J., et al
- [A] EP 0287845 A2 19881026 - SEITZ ENZINGER NOLL MASCH [DE]
- [A] US 6131372 A 20001017 - PRUETT DANIEL W [US]

Cited by

DE102011081705A1; CN102219059A; ITMI20130264A1; EP3854732A1; WO2021150718A1; WO2012175161A1; EP2749512B1

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