

Title (en)

Volumetric loader for stacked food products such as biscuits or similar

Title (de)

Volumetrischer Lader für gestapelte Lebensmittelprodukte wie Gebäck und dergleichen

Title (fr)

Chargeur volumétrique pour produits alimentaires empilés tels que des biscuits et similaires

Publication

**EP 2390192 A1 20111130 (EN)**

Application

**EP 11166487 A 20110518**

Priority

IT VR20100113 A 20100528

Abstract (en)

A volumetric loader for the volumetric portioning of stacked products comprising a machine (10) which makes stacks of a preset length of biscuits, crackers or similar products ready for packing later in a closed wrapper along a packing line for such products, where the machine (10) comprises a feed conveyor (11) which feeds product towards a portioning unit which has one or more portioning stations (12), where the outfeed conveyor (21), comprising a double chain (22) whose links face the opposite side of the conveyor (21) and which are connected by bars (25), has a conveyor belt (24) located between the respective actuating rollers, designed to move at an adjustable speed and actuated by an independent motor in such a way that increasing or decreasing the speed of the belt governed by its independent motor, thrusts or stops the biscuits against the bars (23), that is, the belt pushes the "slug" of loose biscuits against the front bar of the chain line (22) or brakes the "slug" of biscuits against the rear bar of the chain line (22), so as to perfectly straighten each "slug" of biscuits especially those which may be out of line.

IPC 8 full level

**B65B 23/14** (2006.01); **B65B 35/44** (2006.01)

CPC (source: EP)

**B65B 23/14** (2013.01); **B65B 35/44** (2013.01)

Citation (applicant)

EP 1304303 A1 20030423 - SASIB PACKAGING SYSTEM S P A [IT]

Citation (search report)

- [A] EP 2103523 A1 20090923 - SYNCHROSYS S R L [IT]
- [A] US 4122938 A 19781031 - WALZ THEO, et al
- [A] EP 1318089 A1 20030611 - CHAUHAN VIJAY [IN]
- [A] WO 2008058176 A1 20080515 - MEADWESTVACO PACKAGING SYSTEMS [US], et al

Cited by

CN111977066A; CN115959431A; CN110370277A; CN102963555A; CN106938716A; CN107910580A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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