

Title (en)

Feeder arranged in line with folding star conveyor of packaging machines

Title (de)

Fördereinrichtung mit in-Line-Sternförder-und-Falzrad einer Verpackungsmaschine

Title (fr)

Dispositif d'alimentation avec une roue plieuse en étoile en-ligne dans une machine d'emballage

Publication

**EP 1671885 A1 20060621 (EN)**

Application

**EP 05111889 A 20051209**

Priority

IT BO20040766 A 20041214

Abstract (en)

A feeder (1) for feeding a product (P), adapted to be arranged in line with a rotary folding star conveyor (5) of packaging machines (2), the packaging machines (2) generally comprising a feeder (1) for the products (P) to be packaged, a controlled unit (3) for distributing the sheet (4) with which each product (P) will be packaged, a unit (13) for inserting the product (P) and the respective packaging sheet (4) in the grip element (7) arranged at the end of the arm (6) of a rotating packaging star conveyor (5). The feeder (1) according to the invention comprises at least one unit (8) for conveying the products (P), which is arranged substantially at right angles to a pivoting axis (9) of the star conveyor (5) and is aligned with the distribution unit (3) of the packaging sheet (4) and also comprises, at the end portion of the at least one unit (8), a rotating element (10) which, by means of its own oscillating motion, transfers each product (P) onto the element of an insertion unit (13) where the product (P) receives from the distribution unit (3) the sheet (4) before being inserted in the grip element (7) of the arm (6) of the rotating star conveyor (5) that passes at the insertion position.

IPC 8 full level

**B65B 25/00** (2006.01); **B65B 35/58** (2006.01)

CPC (source: EP)

**B65B 11/28** (2013.01); **B65B 25/005** (2013.01)

Citation (applicant)

- US 4352264 A 19821005 - SERAGNOLI ENZO
- US 2744370 A 19560508 - ARIOSTO SERAGNOLI

Citation (search report)

- [X] US 4352264 A 19821005 - SERAGNOLI ENZO
- [X] US 2744370 A 19560508 - ARIOSTO SERAGNOLI
- [A] EP 0733548 A1 19960925 - NUOVA FIMA IMBALLAGGI [IT]

Cited by

CN109533443A; CN103587745A; ITUB20152575A1; EP1897810A1; EP2942293A1; CN105083621A; CN103895902A; WO2017017652A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1671885 A1 20060621**; **EP 1671885 B1 20091014**; AT E445537 T1 20091015; DE 602005017112 D1 20091126; IT BO20040766 A1 20050314

DOCDB simple family (application)

**EP 05111889 A 20051209**; AT 05111889 T 20051209; DE 602005017112 T 20051209; IT BO20040766 A 20041214