Title (en)

HANDLE APPLICATOR FOR APPLYING HANDLES TO FLAT-PACK PACKAGING

Title (de)

TRAGEGRIFFAPPLIKATOR ZUM ANBRINGEN VON TRAGEGRIFFEN AN FLACHES VERPACKUNGSMATERIAL

Title (fr)

APPLICATEUR DE POIGNÉE POUR APPLIQUER DES POIGNÉES SUR UN EMBALLAGE EMBALLÉ À PLAT

Publication

EP 3804973 A1 20210414 (EN)

Application

EP 20199330 A 20200930

Priority

IT 201900018107 A 20191007

Abstract (en)

A handle applicator (1) for applying handles to flat-pack packaging is provided comprising a frame (2) designed for suspending a rotating handle applicator (3) over a conveyor belt (4) for transporting packaging; handle dispensing means (5), handle handling means (6) and a U-shaped waiting track (7), placed along one side of a bridge (22); glue application means (8) arranged at the handle handling means (6); a control station (9); a plurality of actuators (10); a plurality of position sensors (30) for handles and packaging; wherein the rotating applicator (3) has a body (31) connected to one or more of said actuators (10), and wherein, at the upper ends of the applicator (3), some rods (34), rotating integrally with said body (31), are fixed, with the possibility of rotating on themselves with mechanical connections (33); each rod is equipped with a row of suction cups (35), designed for picking up the handles from a position defined by the waiting track (7) and coupling them to the packaging moving on the conveyor belt (4).

IPC 8 full level

B31B 70/86 (2017.01); **B31B 50/86** (2017.01)

CPC (source: CN EP)

B31B 50/87 (2017.08 - EP); **B31B 70/864** (2017.08 - EP); **B65B 61/20** (2013.01 - CN)

Citation (applicant)

- CA 1283319 C 19910423 - HERRING JACK G [US]
- WO 8902362 A1 19890323 - MANVILLE CORP [US]

Citation (search report)

- [YA] US 5437594 A 19950801 - MATTSON LARRY J [US], et al
- [YDA] WO 8902362 A1 19890323 - MANVILLE CORP [US]

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)

BA ME

DOCDB simple family (publication)

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