Title (en)

UNPILING DEVICE FOR FLAT ARTICLES SUCH AS MAIL

Publication

EP 0087341 A3 19850410 (FR)

Application

EP 83400247 A 19830204

Priority

FR 8202794 A 19820219

Abstract (en)

[origin: EP0087341A2] 1. An unstacker device for unstacking flat objects (1) ensuring the link between a feed magazine acting as buffer stock and having drive means (5) for driving the stock of objects, and a conveyor device conveying the objects one by one, the unstacking device comprising at the end of the magazine an unstacking face (2) including suction means (12) and accelerating means (11) for accelerating one by one the objects leaving the magazine in order to be introduced into the conveyor device, and comprising means (3, 4, 5) for inclining the objects with the lower part forwards in front of the unstacking face, characterized in that said drive means (5) for driving the feed magazine are mounted in such a way that they ensure the movement of the stock of objects up to a position close to the unstacking face (2) and that the inclination means (3, 4, 5) only act on the terminal objects of the stock located close to the unstacking face (2) by ensuring the application of the foot of the terminal object against the unstacking face without any pressure being exerted by the stock of the magazine, and that it further comprises blowing means (6) located above the unstacking face (2) and directed in such a way that their effect is opposed to the application of the objects against the unstacking face, further comprising first detection means (C1) for detecting the presence of objects, these means being mounted close to said unstacking face and controlling the stop of the drive means (5) for driving the stock of objects in the magazine and releasing the suction means (12) of the unstacking face (2) as long as objects are detected there, and second detection means (C2) for detecting an object applied against the unstacking face (2), these means being mounted close to the accelerating means (11) which act on the blowing means (6) for retaining the objects which follow the object applied against the unstacking face as long as an object is still detected as being applied against this face.

IPC 1-7

B65H 3/48; B65H 1/02; B65H 1/08

IPC 8 full level

B65H 1/02 (2006.01); B65H 1/08 (2006.01); B65H 3/48 (2006.01)

CPC (source: EP

B65H 1/025 (2013.01); B65H 3/48 (2013.01); B65H 2511/214 (2013.01); B65H 2701/1916 (2013.01)

C-Set (source: EP)

B65H 2511/214 + B65H 2220/02

Citation (search report)

- [Y] BE 554615 A
- [Y] US 3253825 A 19660531 FRITZ BUCHWALD
- [A] FR 2124716 A5 19720922 GIAVAZZI MARCO, et al
- [A] DE 1217405 B 19660526 STANDARD ELEKTRIK LORENZ AG
- [A] US 2361907 A 19441107 LEONARD BAKER, et al

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DOCDB simple family (publication)

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DOCDB simple family (application)

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