

Title (en)  
Unpiling device for flat articles such as mail.

Title (de)  
Vorrichtung zum Entstapeln von flachen Gegenständen wie Postsendungen.

Title (fr)  
Dépileur d'objets plats tels que des plis postaux.

Publication  
**EP 0087341 A2 19830831 (FR)**

Application  
**EP 83400247 A 19830204**

Priority  
FR 8202794 A 19820219

Abstract (en)  
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.

Abstract (fr)  
L'invention concerne un dépileur d'objets plats tels que des plis postaux. Un tel dépileur situé entre un magasin d'alimentation et la face de dépilage comporte des moyens (3) assurant aux plis qui se présentent au niveau de la tête de dépilage une inclinaison arrière. Il peut en outre comporter des moyens (6) accentuant la séparation entre le pli en cours de dépilage (8) et le pli (7) qui le suit immédiatement et une combinaison de moyens de détection C1 et C2 de moyen de commande sélective des organes de la machine en fonction des paramètres régissant le dépilage.

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)

Cited by  
FR2925474A1; CN114476697A; EP2143676A4; EP0387476A1; EP0582869A3; EP0562954A1; FR2689038A1; US5308052A; US8235377B2; WO2009080929A3

Designated contracting state (EPC)  
CH DE LI NL SE

DOCDB simple family (publication)  
**EP 0087341 A2 19830831**; **EP 0087341 A3 19850410**; **EP 0087341 B1 19880406**; AU 1164883 A 19830825; CA 1205503 A 19860603; DE 3376205 D1 19880511; FR 2521962 A1 19830826; FR 2521962 B1 19851227

DOCDB simple family (application)  
**EP 83400247 A 19830204**; AU 1164883 A 19830218; CA 421713 A 19830216; DE 3376205 T 19830204; FR 8202794 A 19820219