

Title (en)  
DEVICE FOR TREATING PRINTED PRODUCTS

Publication  
**EP 0341424 A3 19900711 (DE)**

Application  
**EP 89106112 A 19890407**

Priority  
CH 179688 A 19880511

Abstract (en)  
[origin: JPH0218257A] PURPOSE: To easily insert, collate or collect printed products by arranging a control device for opening/closing a clamp regardless of motion of a carriage. CONSTITUTION: A first supply conveyor introduces printing paper sheets 34 into respective divisions passing through in the prescribed direction under this conveyor. In this case, a clamp tongue 54 in a collating drum 12 exists in an opening position, so that the printing paper sheets 34 fall on the bottom surface of a carriage 50. Next, in rotating in the arrow (u) direction, a roller 94 of a lever arm 92 slides in a rail piece 54, so that the clamp tongue 54 is transferred to a closing position through the lever arm 92. As a result, the printing paper sheets 34 are fixed between the clamp tongue 54 and a wall element 84, and are advanced in the sending direction according to a control rail 74. That is, a spiral transfer passage to the next supply conveyor is formed. Next, when a division 14 reaches a circulating range, the clamp tongue 54 is transferred to the opening position to start a return stroke.

IPC 1-7  
**B65H 39/065**

IPC 8 full level  
**B65H 31/28** (2006.01); **B65H 5/32** (2006.01); **B65H 29/10** (2006.01); **B65H 29/40** (2006.01); **B65H 33/18** (2006.01); **B65H 39/065** (2006.01)

CPC (source: EP US)  
**B65H 29/28** (2013.01 - EP US); **B65H 39/065** (2013.01 - EP US); **B65H 2301/4341** (2013.01 - EP US); **B65H 2301/44712** (2013.01 - EP US)

C-Set (source: EP US)  
**B65H 2301/44712** + **B65H 2220/01** + **B65H 2220/02**

Citation (search report)  
• [AD] CH 575303 A5 19760514 - FERAG AG  
• [AD] GB 2066790 A 19810715 - FERAG AG

Cited by  
EP0681979A1; CN104640794A; DE19510901B4; US8424861B2

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0341424 A2 19891115; EP 0341424 A3 19900711; EP 0341424 B1 19930210**; AT E85592 T1 19930215; AU 3391889 A 19891116; AU 606517 B2 19910207; CA 1319937 C 19930706; DD 287464 A5 19910228; DE 58903489 D1 19930325; ES 2037311 T3 19930616; FI 892270 A0 19890510; FI 892270 A 19891112; FI 93938 B 19950315; FI 93938 C 19950626; JP 2706808 B2 19980128; JP H0218257 A 19900122; SU 1762757 A3 19920915; US 5052666 A 19911001

DOCDB simple family (application)  
**EP 89106112 A 19890407**; AT 89106112 T 19890407; AU 3391889 A 19890501; CA 599202 A 19890510; DD 32842389 A 19890509; DE 58903489 T 19890407; ES 89106112 T 19890407; FI 892270 A 19890510; JP 11717989 A 19890510; SU 4614060 A 19890510; US 34930289 A 19890509