

Title (en)  
Device for forming stacks of flat articles

Title (de)  
Vorrichtung zum Bilden von Stapeln aus flächigen Gegenständen

Title (fr)  
Dispositif pour former des piles d'articles plats

Publication  
**EP 1445224 B1 20070718 (DE)**

Application  
**EP 03029874 A 20031227**

Priority  
CH 512003 A 20030114

Abstract (en)  
[origin: EP1445224A1] The apparatus includes a drive motor (48) for ejecting a stack of printed products (12) from the upwardly open space of a compartment (10) in an ejection direction. The drive motor has a first drive for moving upstream guide elements (60) through the compartment space in the ejection direction, and a second drive for moving downstream guide elements (70) out of the compartment space. The compartment space is bounded by a compartment base (28). The upstream guide element is provided on the upstream side of the compartment space when viewed in the ejection direction. The downstream guide element is provided on the downstream side of the compartment space. The first and second drives are independently operable.

IPC 8 full level  
**B65H 31/30** (2006.01); **B65H 31/32** (2006.01)

CPC (source: EP US)  
**B65H 31/3081** (2013.01 - EP US); **B65H 2301/42266** (2013.01 - EP US); **B65H 2402/351** (2013.01 - EP US); **B65H 2404/3111** (2013.01 - EP US); **Y10S 414/114** (2013.01 - EP US)

Cited by  
EP2192067A1; US7520506B2; US8573920B2; EP2133301A1; EP2602220A1; EP2138439A2; EP2157038A1; US7726931B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1445224 A1 20040811; EP 1445224 B1 20070718; EP 1445224 B2 20130814**; AT E367348 T1 20070815; AU 2004200064 A1 20040729; AU 2004200064 B2 20090917; CA 2454925 A1 20040714; CA 2454925 C 20110503; DE 50307694 D1 20070830; DK 1445224 T3 20071105; DK 1445224 T4 20130902; ES 2288586 T3 20080116; ES 2288586 T5 20131218; JP 2004217429 A 20040805; US 2004140607 A1 20040722; US 7828507 B2 20101109

DOCDB simple family (application)  
**EP 03029874 A 20031227**; AT 03029874 T 20031227; AU 2004200064 A 20040107; CA 2454925 A 20040108; DE 50307694 T 20031227; DK 03029874 T 20031227; ES 03029874 T 20031227; JP 2004006697 A 20040114; US 75589504 A 20040113