

Title (en)

Device for aligning a stack of sheets arranged one above the other

Title (de)

Vorrichtung zur Ausrichtung von in einer Lage übereinander angeordneten Bogen

Title (fr)

Dispositif d'alignement de feuilles empilées

Publication

**EP 1607356 B1 20070704 (DE)**

Application

**EP 05016260 A 20020719**

Priority

- EP 02764521 A 20020719
- DE 10139218 A 20010809

Abstract (en)

[origin: WO03016188A2] The invention relates to a device and a method for aligning at least the front edge of several sheets arranged in a stack, one above the other, whilst maintaining the order of the sheets. Said device comprises a stacking table, one side of which is provided with a front edge stop for aligning the front edge of the sheets. A supporting platform, upon which a stack of sheets can be placed with non-aligned front edges, is arranged upstream of the stacking table. The device is provided with a sheet feeder, which removes the sheets from the supporting platform by placing them in an overlapping stream with the front edges placed under the preceding sheets. A turning device is provided downstream of the sheet feeder, said device turning the overlapping stream in such a way that the front edge area of each sheet is freely accessible. Downstream of the turning device, the invention is provided with a conveyer device, by means of which the sheets are conveyed, forming a new stack, to the front edge stop of the stacking table, where their front edges can be aligned.

IPC 8 full level

**B65H 31/34** (2006.01); **B65H 31/36** (2006.01); **B65H 3/00** (2006.01); **B65H 9/00** (2006.01); **B65H 15/00** (2006.01); **B65H 29/24** (2006.01); **B65H 29/66** (2006.01)

CPC (source: EP KR US)

**B65H 9/04** (2013.01 - EP US); **B65H 15/008** (2020.08 - EP US); **B65H 29/24** (2013.01 - KR); **B65H 29/241** (2013.01 - EP US); **B65H 29/243** (2013.01 - EP US); **B65H 29/6654** (2013.01 - EP US); **B65H 29/6663** (2013.01 - EP US); **B65H 31/36** (2013.01 - EP US); **B65H 2404/2611** (2013.01 - EP US); **B65H 2406/334** (2013.01 - EP US); **B65H 2511/22** (2013.01 - EP US); **B65H 2701/1912** (2013.01 - EP US)

Cited by

DE102012216519A1; DE102012216519B4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03016188 A2 20030227**; **WO 03016188 A3 20030828**; **WO 03016188 B1 20031016**; AT E305432 T1 20051015; AT E366219 T1 20070715; AT E399141 T1 20080715; CA 2456278 A1 20030227; CN 100340460 C 20071003; CN 1545477 A 20041110; DE 10139218 C1 20030424; DE 50204415 D1 20060209; DE 50210431 D1 20070816; DE 50212416 D1 20080807; EP 1414728 A2 20040506; EP 1414728 B1 20050928; EP 1607356 A2 20051221; EP 1607356 A3 20060104; EP 1607356 B1 20070704; EP 1612174 A1 20060104; EP 1612174 B1 20080625; JP 2004538225 A 20041224; JP 2008169044 A 20080724; KR 100883858 B1 20090217; KR 20040035713 A 20040429; RU 2004106613 A 20050327; RU 2006133126 A 20080320; RU 2293699 C2 20070220; RU 2406675 C2 20101220; US 2005001373 A1 20050106; US 7322575 B2 20080129

DOCDB simple family (application)

**DE 0202661 W 20020719**; AT 02764521 T 20020719; AT 05016259 T 20020719; AT 05016260 T 20020719; CA 2456278 A 20020719; CN 02815607 A 20020719; DE 10139218 A 20010809; DE 50204415 T 20020719; DE 50210431 T 20020719; DE 50212416 T 20020719; EP 02764521 A 20020719; EP 05016259 A 20020719; EP 05016260 A 20020719; JP 2003521127 A 20020719; JP 2008016837 A 20080128; KR 20047001734 A 20020719; RU 2004106613 A 20020719; RU 2006133126 A 20020719; US 48642904 A 20040726