

Title (en)

APPARATUS FOR REMOVING SHEETS FROM A PILE AND FOR TRANSPORTING THE SHEETS FROM THE PILE

Publication

**EP 0155475 B1 19861217 (DE)**

Application

**EP 85101008 A 19850131**

Priority

DE 3410026 A 19840319

Abstract (en)

[origin: US4643412A] A guide block (11) has a groove (16) with a flat floor cut into it, in which an endless belt (15) containing perforations (17) travels. A suction opening (18) opens into the floor of the groove (16), to which a vacuum is periodically applied by means of a valve (12). The endless belt (15) travels over a stack (1) of sheets (2) by means of guide rollers (4,5) and a drive roller (3). The vacuum, when periodically applied by the valve (12), operates through the perforations (17) so that the topmost sheet (2) of the stack (1) is sucked against the endless belt (15) and carried away in the same direction (28). One preferred form of the endless belt (15) is a toothed belt, with spaces between the teeth (21) that form vacuum chambers (22). With this compact and therefore easily positionable device, sheets (2) are sucked up from a stack (1) and transported away while maintaining their orientation, meaning that very high production rates are attained.

IPC 1-7

**B65H 3/12; B65H 5/22**

IPC 8 full level

**B65H 3/12** (2006.01); **B65H 5/22** (2006.01)

CPC (source: EP US)

**B65H 3/128** (2013.01 - EP US); **B65H 5/224** (2013.01 - EP US); **B65H 2406/323** (2013.01 - EP US)

Citation (examination)

- DD 10841 A
- US 3389908 A 19680625 - MARTIN LOUIS
- US 4361317 A 19821130 - LAPP-EMDEN HELMUT

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