

Title (en)

Pneumatic side-pull-device for lateral alignment of a sheet on the feeding board of a sheet treating machine, particularly of a printing machine.

Title (de)

Pneumatische Seitenziehvorrichtung zum seitlichen Ausrichten eines Bogens auf dem Anlagetisch einer bogenverarbeitenden Maschine, insbesondere Druckmaschine.

Title (fr)

Dispositif pneumatique pour le déplacement des feuilles une à une en vue de l'alignement latéral sur la table d'alimentation d'une machine de traitement de feuilles, en particulier une machine à imprimer.

Publication

EP 0005863 A1 19791212 (DE)

Application

EP 79101770 A 19790605

Priority

DE 2824932 A 19780607

Abstract (en)

[origin: US4260149A] A mechanism for registering a sheet against front and side stops on the feed table of a printing press, employing a suction head recessed in the table and reciprocated for lateral shifting movement in the direction of the side stop timed with the arrival of the sheet. The head is connected to a source of suction so that the sheet is shifted into contact with the side stop. The head has intentional play in the direction of feeding movement of the sheet, as measured from a reference position, and is freely rockable about its axis, so that the sheet is free to settle against the front stop at the same time that it is being shifted toward the side stop. A conduit connected to a source of a pressure is provided for applying a short puff of air to the head, timed with completion of the shifting movement, to free the sheet from the head in readiness for removal of the sheet from the table. The return movement of the head is utilized to reverse the play and to restore the head to reference position. In the preferred embodiment of the invention the head is mounted upon a reciprocated slide which is slidable upon a tube which serves as an air conduit. Also in the preferred form of the invention the same drive shaft is employed in a compactly integrated construction to obtain the reciprocating movement and for rotating air valves to insure high speed synchronization.

Abstract (de)

Eine Vorrichtung zum Zuführen und Ausrichten eines Bogens an Druckmaschinen weist einen quer zur Bogenlaufrichtung verschiebbaren Schlitten (10) auf, auf dem ein Sauger (16) beweglich gelagert ist. Der Sauger (16) ist auf dem Schlitten (10) derart beweglich gelagert, daß während der Querbewegung des Schlittens (10) der Sauger (16) in Bogenlaufrichtung bewegbar ist. Der Sauger (16) ist als Rohrstück (16.2) ausgebildet, dem durch ein Ventilgehäuse (8) Saugluft zuführbar ist. Die Steuerung des Schlittens (10) und der Saugluft geschieht im Takt der Bogen durch eine Kurve (3) bzw. durch eine rotierende Ventilscheibe (5).

IPC 1-7

B65H 9/10

IPC 8 full level

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CPC (source: EP US)

B65H 9/105 (2013.01 - EP US)

Citation (search report)

- DE 2518220 A1 19761104 - MABEG & CO
- DE 617605 C 19350822 - ALFRED WINKLER, et al

Cited by

EP0297220A3; EP1743858A3; EP0178399A3; DE3438134A1

Designated contracting state (EPC)

AT CH FR GB IT NL SE

DOCDB simple family (publication)

EP 0005863 A1 19791212; **EP 0005863 B1 19810701**; AT E98 T1 19810715; BR 7903535 A 19800122; DE 2824932 A1 19791213; DE 2824932 B2 19800403; DE 2824932 C3 19840329; JP S5527294 A 19800227; JP S5713429 B2 19820317; US 4260149 A 19810407

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EP 79101770 A 19790605; AT 79101770 T 19790605; BR 7903535 A 19790605; DE 2824932 A 19780607; JP 7016379 A 19790606; US 6653279 A 19790815