

Title (en)

Device for longitudinally aligning plate-like elements in a feeding station of a machine for treating them

Title (de)

Vorrichtung zum longitudinalen Ausrichten von plattenförmigen Bauteilen in einer Zuführstation einer Maschine zu ihrer Bearbeitung

Title (fr)

Dispositif pour l'alignement longitudinal d'éléments en plaques dans une station d'introduction d'une machine les travaillant

Publication

EP 1136404 A3 20030102 (FR)

Application

EP 01103808 A 20010216

Priority

CH 4482000 A 20000308

Abstract (en)

[origin: CA2339561A1] Device (1) for the longitudinal alignment of plate shaped workpieces (2) in the infeed station of a processing machine. The device is secured by two lateral brackets (9,10) between which is located a conveyor track for the workpieces comprising two plates (5,6) each folded downwise onto a line (7) non-perpendicular to the feed (3) of the workpieces (2). The latter are moved downstream by means of at least two conveyor belts that pass around at least two pulleys (15,16) secured between fixed bearings (11-14) at the input of the device. The device (1) has on its leading edge a transverse protection plate (39) above which are flaps (30-32) movable with a transverse shaft (24) connecting the leading edges of the two lateral brackets (9,10). This shaft oscillates through 45 degrees, synchronized with the production speed of the machine in order to effect the alignment of said successive workpieces (2). The shaft is made of several linked segments (26-28) each one of them bearing one of the said flaps (30-32).

IPC 1-7

B65H 9/06

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [DA] CH 651807 A5 19851015 - BOBST SA
- [A] EP 0372237 A2 19900613 - HEIDELBERGER DRUCKMASCH AG [DE]
- [A] FR 2577172 A1 19860814 - MILLER JOHANNISBERG DRUCKMASCH [DE]
- [A] US 5496023 A 19960305 - BECKER WILLI [DE], et al
- [A] DE 1013664 B 19570814 - BOBST & SOHN A G J

Cited by

KR100414407B1

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

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EP 1136404 A2 20010926; **EP 1136404 A3 20030102**; **EP 1136404 B1 20040721**; AT E271509 T1 20040815; BR 0100922 A 20011030; BR 0100922 B1 20081118; CA 2339561 A1 20010908; CA 2339561 C 20060328; CH 693951 A5 20040514; CN 1152813 C 20040609; CN 1312211 A 20010912; DE 60104350 D1 20040826; DE 60104350 T2 20050804; ES 2225322 T3 20050316; JP 2001270637 A 20011002; JP 3418181 B2 20030616; KR 100414407 B1 20040107; KR 20010088422 A 20010926; TW 491808 B 20020621; US 2001020767 A1 20010913; US 6481709 B2 20021119

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