

Title (en)

Device for collating flat objects into stacks and for the further processing of the stack

Title (de)

Vorrichtung zum Zusammentragen flacher Gegenstände zu Stapeln und zur Weiterverarbeitung des Stapel

Title (fr)

Dispositif pour assembler des articles plats en piles et pour le traitement ultérieur de la pile

Publication

EP 1254857 A3 20030129 (DE)

Application

EP 02405322 A 20020419

Priority

CH 7642001 A 20010426

Abstract (en)

[origin: CA2382982A1] Flat articles are gathered on stack supports (2) being conveyed past feed points substantially continuously and one after the other. After the gathering operation, bottom edge zones (13) of the gathered articles are exposed for a further processing operation. The corresponding device comprises continuously conveyed stack supports (2) each with an inclined supporting surface (3) and a foot element (4) located in the bottom area of the supporting surface (3). The foot elements are actively connected with the supporting surfaces in such a manner, that they are capable of being pressed against the supporting surface and of being distanced from the supporting surface. In an exposure zone downstream of the gathering zone (1), stack support means (10) being conveyed in synchronism with the stack supports (2) and substantially in the same direction and control means we provided. The stack support means are arranged in such a manner, that at the entrance to the exposure zone (1) they are positioned immediately underneath the stack supports and that further downstream they move away from the stack supports (2) in a downwards direction. The control means act on the foot elements (4) of stack supports (2) conveyed through the exposure zone in such a manner, that these are distanced from the supporting surfaces (3) at the entrance to the exposure zone for letting the stacks slide down onto the stack support means, and that the stacks having slid down onto the stack support means (10) are clamped between the foot element and the supporting surface. The exposed edge zones (13) of the gathered articles can then be processed in a simple way and/or can be taken hold of by further conveying means. The device is simple and is capable of being adjusted to suit various applications.

IPC 1-7

B65H 39/02

IPC 8 full level

B65H 39/06 (2006.01)

CPC (source: EP US)

B65H 29/28 (2013.01 - EP US); **B65H 39/06** (2013.01 - EP US); **B65H 2301/4321** (2013.01 - EP US); **B65H 2301/4433** (2013.01 - EP US); **B65H 2301/44712** (2013.01 - EP US); **B65H 2301/4476** (2013.01 - EP US); **B65H 2405/50** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2301/44712** + **B65H 2220/02**
2. **B65H 2301/44712** + **B65H 2220/01**
3. **B65H 2301/4476** + **B65H 2220/02**

Citation (search report)

- [A] US 4479643 A 19841030 - SEIDEL RANDY R [US]
- [A] EP 0247315 A1 19871202 - HARRIS GRAPHICS CORP [US]
- [A] US 5662319 A 19970902 - HONEGGER WERNER [CH]
- [A] US 5269504 A 19931214 - BACKMAN RALF [SE]
- [DA] EP 0908408 A2 19990414 - HEIDELBERGER DRUCKMASCH AG [DE]
- [DA] EP 0712736 A2 19960522 - GRAPHIA HOLDING AG [CH]
- [DT] EP 1219558 A2 20020703 - FERAG AG [CH]

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EP 1254857 A2 20021106; **EP 1254857 A3 20030129**; **EP 1254857 B1 20050824**; AT E302731 T1 20050915; AU 3560002 A 20021031; AU 783529 B2 20051103; CA 2382982 A1 20021026; CA 2382982 C 20090602; DE 50204002 D1 20050929; DK 1254857 T3 20051219; ES 2247288 T3 20060301; US 2002159874 A1 20021031; US 6708968 B2 20040323

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