

Title (en)

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

Title (de)

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

Title (fr)

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

Publication

EP 1254857 B1 20050824 (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 are 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

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CPC (source: EP US)

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Cited by

CH697984B1; US7857299B2; WO2007118339A1; WO2004013026A1; US7762385B2; US7516839B2; US7591223B2; EP1588971A1; US8342317B2; EP1588971B2

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