

Title (en)
Method and device for gathering of flat objects

Title (de)
Verfahren und Vorrichtung zum Zusammentragen von flachen Gegenständen

Title (fr)
Méthode et dispositif pour assembler des objects

Publication
EP 1219558 B1 20070307 (DE)

Application
EP 01811237 A 20011218

Priority
CH 25252000 A 20001227

Abstract (en)
[origin: CA2365149A1] Flat articles (5) are gathered into stacks (9) by conveying stacks in production successively along a gathering route (1) past feed stations and by adding one article to each stack in every feed station. The stacks (9) in production are conveyed on stack supports (2) with supporting surfaces (7). The supply direction of the articles comprises a component parallel to the stack conveyance direction and the supporting surfaces (7) are advantageously arranged not in parallel to the gathering route (1). The articles (5), each respectively gripped by a holding element (4) on one of their edges (5.1), are conveyed along a supply route (3) to the feed station. The supply route (3) traverses the gathering route (1) at the feed station. The articles (5) are inserted between successive stacks (9) or stack supports (2) respectively e.g. from above with their leading edges (5.1) held gripped. The gripped edge is released from being held by deactivation of the holding element (4), when it has reached the lower zone of the stack supports (2). The released article is then positioned on the upstream or downstream stack (9) or stack support (2) by the force of gravity and/or by its own inertia and the holding element (4) is conveyed onwards in downward direction. A gathering operation of this kind is e.g. suitable for establishing dispatch units made up of different printed products. It allows very compact gathering arrangements, which, with reasonable conveying speeds, allow gathering with high performance capacities. Furthermore, gathering of articles with very different formats is possible without any problems.

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