

Title (en)

Accumulating and delivering apparatus for group of sheets

Title (de)

Vorrichtung zum Sammeln und Fördern von Gruppen von Bogen

Title (fr)

Appareil pour accumuler et distribuer des groupes de feuilles

Publication

EP 1518807 A1 20050330 (EN)

Application

EP 04022964 A 20040927

Priority

- JP 2003336013 A 20030926
- JP 2004272993 A 20040921

Abstract (en)

The present invention relates to an apparatus for accumulating and delivering folded cardboard sheets which can be reduced in cost and improved in reliability thereof due to a simplified construction of the apparatus and facilitated control of the movement of the ledge. The apparatus comprises a stacking base for stacking said sheets on its stacking surface, a stacking base driving means for moving said stacking base in a vertical direction between a stacking position for stacking said sheets on said stacking base as a group and a delivering position for delivering said group of said sheets, a ledge for supporting said sheets being fed from below when said stacking base is moved out from its stacking position, and a ledge controlling means for controlling the movement of said ledge, wherein said ledge is a single ledge positioned at a desired level located between a level corresponding to said stacking position and a sheet feeding level; said apparatus further comprising a ledge reciprocating driving means for moving said single ledge reciprocally in the sheet feeding direction between a sheet receiving position for receiving said sheets to be stacked on said stacking base above said stacking position and a waiting position which is located upstream in the sheet feeding direction from said sheet supporting position; and said ledge controlling means controlling said ledge reciprocating driving means so as to start moving said single ledge from said waiting position to said sheet receiving position, based on the information of the number of said sheets stacked on said stacking base.

<IMAGE>

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CPC (source: EP US)

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Citation (search report)

- [X] US 4311475 A 19820119 - IMAI HIROTO
- [A] FR 2683215 A1 19930507 - HANIMYAN MILAS [FR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08 6 October 2000 (2000-10-06)

Cited by

EP2520526A4; EP3901074A1; US9499370B2

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