

Title (en)

Apparatus and method for accumulating sheets

Title (de)

Verfahren und Vorrichtung zum Sammeln von Papierbögen

Title (fr)

Procédé et dispositif pour l'accumulation de feuilles de papier

Publication

EP 1683751 A3 20061018 (EN)

Application

EP 06008777 A 20040624

Priority

- EP 04014778 A 20040624
- US 61116703 A 20030630

Abstract (en)

[origin: EP1493700A2] An accumulator device with a downward angled input transport (42). Downstream, an accumulating receptacle (44,47) receives sheets. The accumulating receptacle has an upper guide (47) and a lower guide (44) forming a horizontal accumulating channel. Dump rollers (43) act as a stop during sheet accumulation, and as a transport for removing completed accumulations from the sheet accumulating device. A rear portion of sheets (1) buckle downward into a trap arrangement (45) below the input rollers (41). Preferably, the upper guide of the accumulating channel comprises a continuously rotating belt (47) to urge accumulating sheets against the dump rollers (43). Also, a positive air device (49) may be used to assist in the buckling of the rear portion of the sheets. To assist in handling large collations, when a sheet arrives at the dump rollers (43) they advance by a small predetermined incremental displacement slightly shingling the sheets (1) to maintain positive control for later reliable discharge. <IMAGE>

IPC 8 full level

B65H 29/12 (2006.01); **B65H 29/16** (2006.01); **B65H 31/00** (2006.01); **B65H 31/30** (2006.01); **B65H 39/10** (2006.01)

CPC (source: EP US)

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Citation (search report)

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Designated contracting state (EPC)

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EP 1493700 A2 20050105; **EP 1493700 A3 20050309**; **EP 1493700 B1 20061122**; CA 2472870 A1 20041230; CA 2472870 C 20071023; DE 602004003299 D1 20070104; DE 602004003299 T2 20070628; EP 1683751 A2 20060726; EP 1683751 A3 20061018; US 2005017438 A1 20050127

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