

Title (en)
Paper sheet handling apparatus.

Title (de)
Papierblätterverarbeitungsvorrichtung.

Title (fr)
Dispositif de manipulation de feuilles de papier.

Publication
EP 0280147 A2 19880831 (EN)

Application
EP 88102194 A 19880215

Priority
JP 4038387 A 19870225

Abstract (en)
Two thickness detectors (5) each for outputting an electric signal representing the thickness of a paper sheet(B) passing thereby are arranged side by side in the width direction of a paper sheet conveyance path (3). Parameters such as paper sheet thickness, length, the existence of skew and, if skew exists, the skew angle (θ), are calculated based on the output signals from the thickness detectors. This facilitates detection of two or more overlapping bank notes among a wide variety of bank notes having different thicknesses or in case of a bank note having a significantly non-uniform thickness. The correct thickness of a paper sheet is also obtained at all times by using the skew angle and the reference length (W) of the paper sheet. This not only facilitates detection of two overlapping bank notes among a wide variety of bank notes having different thicknesses or in case of a bank note having a significantly non-uniform thickness, but also enables detection to be made very accurately. The number of paper sheets being conveyed past the thickness detectors at one time is determined based on the output signals of the thickness sensors. If the number of sheets has been reliably determined, this number of sheets is released even when sheets are being conveyed in an overlapping state and not just singly.

IPC 1-7
B65H 7/12; **G07D 1/00**

IPC 8 full level
B65H 7/06 (2006.01); **B65H 7/12** (2006.01); **B65H 43/00** (2006.01); **G01B 21/08** (2006.01); **G06M 3/00** (2006.01); **G06M 7/00** (2006.01); **G06M 7/06** (2006.01); **G07D 7/00** (2006.01); **G07D 9/04** (2006.01); **G07D 11/00** (2006.01)

CPC (source: EP KR)
B65H 7/06 (2013.01 - EP); **B65H 7/12** (2013.01 - EP); **G07D 7/00** (2013.01 - KR); **G07D 11/10** (2018.12 - EP); **G07D 11/237** (2018.12 - EP); **B65H 2511/11** (2013.01 - EP); **B65H 2511/13** (2013.01 - EP); **B65H 2511/20** (2013.01 - EP); **B65H 2511/212** (2013.01 - EP); **B65H 2511/24** (2013.01 - EP); **B65H 2511/30** (2013.01 - EP); **B65H 2511/514** (2013.01 - EP); **B65H 2511/524** (2013.01 - EP); **B65H 2513/51** (2013.01 - EP); **B65H 2553/41** (2013.01 - EP); **B65H 2553/61** (2013.01 - EP); **B65H 2701/1311** (2013.01 - EP); **B65H 2701/1313** (2013.01 - EP)

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Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0280147 A2 19880831; **EP 0280147 A3 19900131**; JP H0734218 B2 19950412; JP S63208186 A 19880829; KR 880010378 A 19881008; KR 920005339 B1 19920702

DOCDB simple family (application)
EP 88102194 A 19880215; JP 4038387 A 19870225; KR 880001886 A 19880224