

Title (en)
Sheet transporting apparatus.

Title (de)
Apparat zum Transportieren von Bögen.

Title (fr)
Appareil de transport de feuilles.

Publication
EP 0289217 A1 19881102 (EN)

Application
EP 88303606 A 19880421

Priority
GB 8709616 A 19870423

Abstract (en)
Sheet transporting apparatus including a pair of rollers (13, 14) forming a sheet transporting nip (12), and adapted, when in an initial position (Fig. 1a), to engage the leading edge (17) of a sheet (11) delivered thereto, and means arranged to produce an orbital motion of the rollers one about the other so as to progressively change the direction of motion of the sheet while the sheet is advancing through the nip (Figs. 1b - 1d). In one preferred form of the apparatus, the nip between the rollers, in its initial position, is oriented so as to receive a sheet delivered thereto in a generally horizontal direction (Fig. 1a), and at the position in said orbital motion furthest from the initial position (Fig. 1c) is oriented so that it is advancing the sheet generally vertically downwards. In this form, the apparatus is suitably used in conjunction with a generally vertical sheet receiving tray to provide a sheet inverting stacker. In another preferred form, the sheet transporting apparatus is used in conjunction with a generally horizontal sheet receiving tray to provide a sheet stacking apparatus capable of reliably stacking sheets over a wide range of sheet lengths without any adjustments being needed to the locations of the rollers or the tray.

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IPC 8 full level
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Citation (search report)
• GB 2139195 A 19841107 - GRADCO SYSTEMS INC
• US 4647032 A 19870303 - OBA HARUTARO [JP]

Cited by
US5021837A

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