

Title (en)

Process for statically and dynamically controlling tilting paper supply for high capacity feeder

Title (de)

Verfahren zur statistischen und dynamischen Regelung der Neigung der Papierzufuhr für Hochgeschwindigkeits-Blattzuführvorrichtung

Title (fr)

Méthode pour contrôler statistiquement et dynamiquement l'inclinaison d'alimentation du papier pour un dispositif d'alimentation à grande vitesse

Publication

**EP 1013581 A2 20000628 (EN)**

Application

**EP 99125214 A 19991217**

Priority

US 22097698 A 19981223

Abstract (en)

A method of statically and dynamically controlling the height and angle of a feed tray (210) in an electrophotographic printing machine. The paper supply starts with the tray (210) lead edge ramped up 1.4 degrees and paper is loaded. Required paper properties are inputted or sensed automatically (e.g., gsm, size, etc.). The elevator raises to lowest possible stack height (to maintain stack control using tray guides in preparation for air system turning on). The initial tray angle is removed based on paper gsm and the air system activates fluffer and air knife jets (360), but vacuum is valved to off position. The stack height arm (352) is raised & lead edge attitude sensor (340) is interrogated for top sheet position relative to feed head acquisition surface (sensor may be position sensitive device type or multiple sensors with different focal lengths, etc.). Based on positions sensed by stack height and lead edge attitude sensors, the tray angle and/or stack height is adjusted until the desired sensor states are achieved. Upon completion of adjustments to the tray angle, stack height is verified. Feeding commences and stack height and lead edge attitude positions are checked each feed with corrections made accordingly. <IMAGE>

IPC 1-7

**B65H 7/00**; **B65H 1/18**

IPC 8 full level

**B65H 1/18** (2006.01); **B65H 7/02** (2006.01)

CPC (source: EP)

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Cited by

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