

Title (en)

Apparatus and method for printing and/or electronically scanning dual face surfaces of a sheet/mailpiece

Title (de)

Vorrichtung und Verfahren zum Drucken und/oder elektronischen Scannen von doppelseitigen Oberflächen eines Blattes/einer Postsendung

Title (fr)

Appareil et procédé d'impression et/ou de balayage électronique de surfaces à double face d'une feuille/pli postal

Publication

EP 2030923 A3 20110803 (EN)

Application

EP 08014931 A 20080822

Priority

US 84896807 A 20070831

Abstract (en)

[origin: EP2030923A2] A sheet handling apparatus (10) for conveying sheet material/mailpieces along a feed path (FP) which facilitates access to the dual face surfaces thereof for the purpose of printing, and/or scanning information contained, thereon. The sheet handling apparatus (10) includes first and second conveyor modules (12, 14) each having a conveyor surface (12C, 14C), a portion of which is disposed in opposing, face-to-face relation with a portion of the other conveyor surface. Furthermore, the conveyor surfaces (12C, 14C) cooperate with a means (16) for developing a pressure differential across the conveyor surfaces to hold the sheet material on the conveyor surfaces and transfer the sheet material across the modules during transport. A processor (20) controls the pressure differential means (16) such that the sheet material is held against the conveyor surfaces (12C, 14C) by a negative pressure differential developed across the conveyor surface and transferred from one conveyor surface (12C) to the other (14C) by controlling the pressure differential of both modules when the sheet material is interposed between the face-to-face interface (FF). The remaining end portions of each conveyor surface are oppositely disposed and openly accessible to perform other sheet material processes. For example, the sheet material may be scanned along or printed on each face surface.

IPC 8 full level

B65H 5/22 (2006.01)

CPC (source: EP US)

B65H 5/224 (2013.01 - EP US); **B65H 11/007** (2013.01 - EP US); **B65H 2301/321** (2013.01 - EP US); **B65H 2301/44735** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US); **B65H 2801/39** (2013.01 - EP US)

Citation (search report)

- [XA] US 6139004 A 20001031 - COUILLARD JACK L [US], et al
- [A] US 4433599 A 19840228 - MUNDUS FRIEDHELM [DE], et al
- [A] US 2004251606 A1 20041216 - MAYERBERG WILLSON L [US], et al

Cited by

EP3020559A1; EP3763646A1; US8939274B1; US9440466B2; US9616689B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2030923 A2 20090304; EP 2030923 A3 20110803; EP 2030923 B1 20121003; US 2009057998 A1 20090305

DOCDB simple family (application)

EP 08014931 A 20080822; US 84896807 A 20070831