

Title (en)
Paper feeding method and apparatus

Title (de)
Verfahren und Vorrichtung zum Zuführen von Papier

Title (fr)
Méthode et dispositif d'alimentation en papier

Publication
EP 1584583 A2 20051012 (EN)

Application
EP 05007463 A 20050405

Priority
JP 2004112555 A 20040406

Abstract (en)
A method and apparatus are provided for feeding the bottommost paper sheet one by one to a succeeding paper-processing step such as printing as extracted from a stack of paper sheets (1). The paper stack is supported by a front guide (2) having a pawl (4) at the lower end and a back gate (3) as inclined toward the back gate (3) and the bottommost paper sheet is attracted to a reversibly movable suction belt (5) while the remaining paper stack is pushed up by a lift table (15) to avoid contacting with the suction belt (5). Thus, one and only one paper sheet is extracted from the paper stack and conveyed by the suction belt (5) to be received by a pair of pinching rollers for feeding to the succeeding step.

IPC 1-7
B65H 3/12; **B65H 3/34**

IPC 8 full level
B65H 3/04 (2006.01); **B31B 50/06** (2017.01); **B65H 3/12** (2006.01); **B65H 3/34** (2006.01)

CPC (source: EP)
B65H 3/126 (2013.01); **B65H 3/34** (2013.01); **B65H 2403/51** (2013.01); **B65H 2403/942** (2013.01)

Citation (applicant)
• JP S551210 A 19800108 - NIPPON SHEET GLASS CO LTD
• JP S61114937 A 19860602 - ASAHI TEKKOSHO KK
• JP H09194058 A 19970729 - ASAHI MACH KK

Cited by
CN102730440A; CN105984737A

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
EP 1584583 A2 20051012; **EP 1584583 A3 20080730**; **EP 1584583 B1 20100526**; CN 100448764 C 20090107; CN 1683225 A 20051019; DE 602005021425 D1 20100708; JP 2005298078 A 20051027

DOCDB simple family (application)
EP 05007463 A 20050405; CN 200510059971 A 20050404; DE 602005021425 T 20050405; JP 2004112555 A 20040406