

Title (en)
APPARATUS FOR SEPARATING AND CONVEYING SHEET-LIKE ARTICLES

Publication
EP 0194510 A3 19880107 (DE)

Application
EP 86102496 A 19860226

Priority
DE 3508737 A 19850312

Abstract (en)
[origin: US4709912A] In order to accomplish the separation and further conveyance of the uppermost sheet of a stack of sheets by the simplest possible means, an elastic friction finger resting with slight pressure on the uppermost sheet of the stack is provided, which is set into reciprocating motion in a direction (A-B) that is inclined by a certain angle (α) relative to the surface of the stack, the movement having a low amplitude and a relatively high frequency. The stack itself is inclined backward relative to the horizontal by a certain angle (β). The drive of the friction finger may be effected by means of a bellows connected to a valveless pump, by a pneumatic cylinder, or by a crank drive. It is also possible to connect a pneumatic cylinder, provided with vent bores controlled by the piston, to a supply line that is at constant negative pressure or overpressure.

IPC 1-7
B65H 3/02

IPC 8 full level
B65H 3/02 (2006.01)

CPC (source: EP US)
B65H 3/02 (2013.01 - EP US)

Citation (search report)
• [Y] US 3528739 A 19700915 - NODA KOJI
• [Y] DE 2556779 A1 19760708 - IBM
• [A] GB 1364390 A 19740821 - IBM
• [A] DE 2617887 A1 19761118 - IBM

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

DOCDB simple family (publication)
EP 0194510 A2 19860917; EP 0194510 A3 19880107; DE 3508737 A1 19860925; JP S61229727 A 19861014; US 4709912 A 19871201

DOCDB simple family (application)
EP 86102496 A 19860226; DE 3508737 A 19850312; JP 5350286 A 19860311; US 83904786 A 19860312