

Title (en)

Device for separating a top most sheet from a supply stack by means of air blowing means

Title (de)

Vorrichtung zum Separieren eines obersten Blattes von einem Vorratsstapel mittels Luftblasmitteln

Title (fr)

Dispositif de séparation d'une feuille au sommet d'une pile de réserve à l'aide de moyens de soufflage d'air

Publication

EP 1127818 A3 20030102 (DE)

Application

EP 01101676 A 20010130

Priority

DE 10008909 A 20000225

Abstract (en)

[origin: EP1127818A2] The sheet separation device has a low pressure air jet device (3.1,3.2) positioned adjacent a reduced pressure sheet transport unit with a sheet curvature device, seizing the separated top sheet from a sheet stack (S) and feeding it to a processing station. The low pressure air jet device has an air jet (31) aligned with the center line of the sheet stack and the sheet transport path and several air jets (32) on either side of the center line, providing jets of differing pressure, direction and diameter, cooperating with additional jets (D1,D1'; D2,D2') supplied from a high pressure source, for separating the uppermost sheet and retaining the underlying sheet.

IPC 1-7

B65H 3/12; **B65H 3/48**

IPC 8 full level

B65H 3/10 (2006.01); **B65H 3/48** (2006.01)

CPC (source: EP)

B65H 3/48 (2013.01); **B65H 2301/42324** (2013.01); **B65H 2406/122** (2013.01)

Citation (search report)

- [A] EP 0453835 A2 19911030 - HEIDELBERGER DRUCKMASCH AG [DE]
- [A] US 4184672 A 19800122 - STOREY CHRISTOPHER C [GB], et al
- [A] US 4699369 A 19871013 - ZIRILLI MICHELE D [US]
- [DA] EP 0612680 A1 19940831 - EASTMAN KODAK CO [US]

Cited by

EP1197450A3; CN105173802A; CN108861693A; CN114620281A; US7007944B1

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DOCDB simple family (application)

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