Title (en)

Sheet supplying device and image forming apparatus

Title (de)

Blattzuführungsvorrichtung und Bilderzeugungsvorrichtung

Title (fr)

Dispositif d'alimentation de feuille et appareil de formation d'image

Publication

EP 1975735 B1 20160525 (EN)

Application

EP 08250212 A 20080116

Priority

JP 2007083975 A 20070328

Abstract (en)

[origin: EP1975735A1] A sheet supplying device (LT) which supplies a sheet (P), including: a sheet supplying tray (31) which stacks a bundle of sheets; a first air blowing section (40) which blows air against a side of the bundle of sheets stacked on the sheet supplying tray (31); a second air blowing section (50) which blows air from downstream of the bundle of sheets in a sheet conveyance direction, onto a leading section of the sheets; a vacuum conveyance section (60) which vacuums an uppermost sheet of the bundle of sheets and conveys the sheets one by one; a shielding member (45) which shields air blown from the first air blowing section (40); a vacuum detection sensor (PS1) which detects that a sheet has been vacuumed by the vacuum conveyance section (60); and a control section which controls the shielding member (45) to open so that air generated by the first air blowing section (40) is blown to the bundle of sheets.

IPC 8 full level

G03G 15/00 (2006.01)

CPC (source: EP)

B65H 3/128 (2013.01); **B65H 3/48** (2013.01); **G03G 15/6511** (2013.01); B65H 2406/41 (2013.01); G03G 2215/004 (2013.01)

Citation (examination)

- JP 2004284783 A 20041014 - FUJI XEROX CO LTD
- JP 2001031266 A 20010206 - KYOCERA MITA CORP

Cited by

US8186668B2; US8800753B2; US9409717B2; EP2385007A2; WO2012107217A2; US9079733B2; EP2960191A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1975735 A1 20081001; **EP 1975735 B1 20160525**; JP 2008239312 A 20081009; JP 4835489 B2 20111214; US 2008237968 A1 20081002

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EP 08250212 A 20080116; JP 2007083975 A 20070328; US 1530808 A 20080116