

Title (en)
Sheet-conveying device

Title (de)
Bogenzuführeinrichtung

Title (fr)
Dispositif de transport de feuilles

Publication
EP 1803670 A1 20070704 (EN)

Application
EP 06026341 A 20061219

Priority
JP 2005376678 A 20051227

Abstract (en)
A drive roller (87) and the follower roller (88) defines a nip line therebetween. A recording medium (S) has a leading edge provided with a first corner contactable with the drive roller and a second corner contactable with the follower roller at a contact line when the drive roller and the follower roller provide the nip line. A supporting unit supports the follower roller and is capable of retracting the follower roller away from the nip line in a retracting plane (L1). The retracting plane contains the axis of the follower roller. An angle ± 1 and ± 2 greater than the angle ± 1 is defined between the retracting plane (L1) and an imaginary plane that contains the axes of the drive roller and follower roller. The supporting unit allows the follower roller to be retracted in a downstream side of the paper conveying direction with respect to the imaginary plane. The angle ± 1 is greater than an angle 2 defined between the imaginary plane and a radial plane passing through the second axis and the contact line.

IPC 8 full level
B65H 5/06 (2006.01)

CPC (source: EP US)
B65H 5/062 (2013.01 - EP US); **B65H 2404/1421** (2013.01 - EP US); **B65H 2404/1521** (2013.01 - EP US); **B65H 2511/212** (2013.01 - EP US); **B65H 2515/34** (2013.01 - EP US)

Citation (search report)

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- [A] WO 9601742 A1 19960125 - DIGITAL EQUIPMENT BCFI AB [SE], et al
- [A] US 5580043 A 19961203 - GELB JR JOSEPH [US], et al

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EP2096058A3; US8746696B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1803670 A1 20070704; **EP 1803670 B1 20141203**; CN 1990366 A 20070704; CN 1990366 B 20100526; JP 2007176645 A 20070712; JP 4225316 B2 20090218; US 2007145678 A1 20070628

DOCDB simple family (application)
EP 06026341 A 20061219; CN 200610172110 A 20061227; JP 2005376678 A 20051227; US 61059006 A 20061214