

Title (en)
PAPER TREATING DEVICE

Title (de)
PAPIERBEHANDLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE TRAITEMENT DU PAPIER

Publication
EP 1710184 A4 20080514 (EN)

Application
EP 05704299 A 20050125

Priority

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- JP 2004022148 A 20040129
- JP 2004022154 A 20040129
- JP 2004022151 A 20040129

Abstract (en)
[origin: EP1710184A1] A closing type fence 9 is disposed at the downstream side leading end of a sheet table 5 of a punching device 1. Jogging rollers 12 having a torque limiter are arranged just upstream of a punching unit 6. The sheet, as fed into the sheet table by feed rollers 3, is pushed onto the closing type fence by the jogging rollers and is interposed between right and left positioning plates so that it is precisely positioned. When the punching treatment by the punching unit is executed, the closing type fence is opened so that the sheet is discharged by the jogging rollers and discharge rollers 4.

IPC 8 full level
B26D 7/01 (2006.01); **B65H 31/34** (2006.01); **B65H 31/36** (2006.01); **B65H 37/00** (2006.01); **B26F 1/02** (2006.01)

CPC (source: EP KR US)
B26D 7/015 (2013.01 - EP US); **B26F 1/02** (2013.01 - KR); **B65H 31/36** (2013.01 - EP KR US); **B65H 37/00** (2013.01 - KR); **B26F 1/02** (2013.01 - EP US); **B65H 2801/27** (2013.01 - EP US)

Citation (search report)

- [A] US 6561503 B1 20030513 - OGATA ATSUSHI [JP], et al
- [A] US 2003090055 A1 20030515 - SAITO TAKASHI [JP], et al
- See references of WO 2005073117A1

Designated contracting state (EPC)
DE FR GB NL SE

DOCDB simple family (publication)
EP 1710184 A1 20061011; **EP 1710184 A4 20080514**; CN 100554112 C 20091028; CN 1914108 A 20070214; KR 100887476 B1 20090310; KR 20060130151 A 20061218; US 2007158894 A1 20070712; WO 2005073117 A1 20050811

DOCDB simple family (application)
EP 05704299 A 20050125; CN 200580003748 A 20050125; JP 2005001303 W 20050125; KR 20067015347 A 20060728; US 58731405 A 20050125