

Title (en)
Sheet reverse device

Title (de)
Blattumkehrvorrichtung

Title (fr)
Dispositif pour inverser la direction d'une feuille

Publication
EP 1514822 A3 20050420 (EN)

Application
EP 04020148 A 20040825

Priority
JP 2003319964 A 20030911

Abstract (en)
[origin: EP1514822A2] A sheet reverse controller is equipped with a reverse unit (29) to convey sheets conveyed from the first conveying means (31,33) in the second direction differing from the first direction; a second conveying means (31,33,49,51) to convey the sheets in the second direction; a sensor (53) provided to the second conveying means to detect the sheets; and a controller (2,4,5) to decelerate or accelerate the sheet conveying velocity of the driving rollers based on the detected result of this sensor (53). <IMAGE>

IPC 1-7
B65H 29/58; **B65H 15/00**

IPC 8 full level
B65H 5/02 (2006.01); **B07C 3/08** (2006.01); **B07C 5/02** (2006.01); **B65H 5/06** (2006.01); **B65H 7/06** (2006.01); **B65H 15/00** (2006.01); **B65H 29/58** (2006.01)

CPC (source: EP KR US)
B07C 3/08 (2013.01 - KR); **B65H 7/06** (2013.01 - EP US); **B65H 15/004** (2020.08 - EP US); **B65H 29/58** (2013.01 - EP KR US); **B65H 2301/33312** (2013.01 - EP US); **B65H 2301/35** (2013.01 - EP US); **B65H 2301/4452** (2013.01 - EP US); **B65H 2511/11** (2013.01 - EP US); **B65H 2511/22** (2013.01 - EP US); **B65H 2511/514** (2013.01 - EP US); **B65H 2513/11** (2013.01 - EP US); **B65H 2513/20** (2013.01 - EP US); **B65H 2701/1311** (2013.01 - EP US); **B65H 2701/1313** (2013.01 - EP US); **B65H 2701/1912** (2013.01 - EP US)

C-Set (source: EP US)
1. **B65H 2511/11** + **B65H 2220/01**
2. **B65H 2511/22** + **B65H 2220/01**
3. **B65H 2511/22** + **B65H 2220/03**
4. **B65H 2513/11** + **B65H 2220/02**
5. **B65H 2701/1311** + **B65H 2220/01**
6. **B65H 2701/1313** + **B65H 2220/01**

Citation (search report)
• [X] EP 1139303 A2 20011004 - TOSHIBA KK [JP]
• [PX] EP 1424299 A2 20040602 - TOSHIBA KK [JP]
• [A] EP 1180488 A1 20020220 - STAR MFG CO [JP]
• [X] US 2002008347 A1 20020124 - TAKIDA NORIO [JP], et al
• [X] US 6354589 B1 20020312 - TARUKI TAKASHI [JP], et al
• [A] US 3955812 A 19760511 - SUDA KAZUYOSHI, et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 06 3 June 2003 (2003-06-03)
• [XD] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 01 31 January 1996 (1996-01-31)

Cited by
CN114308733A; EP1705144B1

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

DOCDB simple family (publication)
EP 1514822 A2 20050316; **EP 1514822 A3 20050420**; JP 2005082394 A 20050331; KR 100621278 B1 20060919; KR 20050027028 A 20050317; US 2005067765 A1 20050331

DOCDB simple family (application)
EP 04020148 A 20040825; JP 2003319964 A 20030911; KR 20040072057 A 20040909; US 91950904 A 20040817