

Title (en)

Device and method for precisely aligning receiving sheets with an increased operational time window

Title (de)

Vorrichtung und Verfahren für ein vergrößertes betriebliches Zeitfenster zur passgenauen Ausrichtung von Empfangsbogen

Title (fr)

Dispositif et méthode pour aligner précisément des feuilles réceptrices avec une fenêtre temporelle opérationnelle augmentée

Publication

EP 1202124 A3 20090603 (DE)

Application

EP 01124333 A 20011022

Priority

US 69851300 A 20001027

Abstract (en)

[origin: EP1202124A2] The device has a motor, a drive element for engagement with the received element (S), a drive coupling (108), a sensor (160a), a timer for determining the time in which the received element's leading edge is detected as outside the normal time window and a controller for driving the motor to control the movement of the received element taking the time into account so the element is fed to the image bearing element at the correct time and speed. Independent claims are also included for the following: a method of moving a receiver element for accurate alignment with a moving image-carrying element.

IPC 8 full level

B41J 11/42 (2006.01); **B41J 15/04** (2006.01); **B65H 7/14** (2006.01); **B65H 9/10** (2006.01); **B65H 9/14** (2006.01); **G03G 15/00** (2006.01); **G03G 21/14** (2006.01)

CPC (source: EP US)

B65H 9/002 (2013.01 - EP US); **G03G 15/6564** (2013.01 - EP US); **G03G 15/6567** (2013.01 - EP US); **B65H 2301/331** (2013.01 - EP US); **B65H 2511/514** (2013.01 - EP US); **B65H 2513/10** (2013.01 - EP US); **B65H 2513/20** (2013.01 - EP US); **G03G 2215/00561** (2013.01 - EP US); **G03G 2215/00599** (2013.01 - EP US); **G03G 2215/00721** (2013.01 - EP US)

Citation (search report)

- [Y] JP 2000143036 A 20000523 - CANON KK
- [Y] EP 0994397 A2 20000419 - CANON KK [JP]
- [Y] US 5078384 A 19920107 - MOORE STEVEN R [US]
- [A] JP H11223969 A 19990817 - FUJI XEROX CO LTD
- [DA] US 5731680 A 19980324 - WINTERBERGER JOHN ANDREW [US], et al

Cited by

EP1791029A3; US7717533B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

EP 1202124 A2 20020502; **EP 1202124 A3 20090603**; CA 2359017 A1 20020427; CA 2359017 C 20050201; DE 10151989 A1 20020508; JP 2002192781 A 20020710; US 6570354 B1 20030527

DOCDB simple family (application)

EP 01124333 A 20011022; CA 2359017 A 20011012; DE 10151989 A 20011022; JP 2001328213 A 20011025; US 69851300 A 20001027