

Title (en)

DEVICE FOR PRECISE-POSITIONING PRINTING OF A MARKING-FREE FILM

Title (de)

VORRICHTUNG ZUM POSITIONSGENAUEN BEDRUCKEN EINER MARKIERUNGSFREIEN FOLIE

Title (fr)

DISPOSITIF POUR L'IMPRESSION, EN POSITION RIGOREUSEMENT EXACTE, D'UNE FEUILLE EXEMPTÉ DE MARQUAGES

Publication

EP 1608514 A1 20051228 (DE)

Application

EP 04718180 A 20040306

Priority

- DE 2004000440 W 20040306
- DE 10312889 A 20030322

Abstract (en)

[origin: US2006000540A1] In an apparatus for accurately applying elements to an unmarked first foil and joining the first foil with a second foil which includes marks at a predetermined distance from one another, wherein the elements need to be applied to the first foil in a predetermined relationship to the marks of the second foil and wherein a connecting device is provided for joining the two foils, a transport device for jointly advancing the two foils and an application device by which the elements are applied to the first foil when an activation signal is provided thereto, a sensor is arranged along the second foil for generating the activation signal when sensing the presence of the marks on the second foil.

IPC 1-7

B41J 11/42; B41J 15/00; B65H 23/188

IPC 8 full level

B31B 50/88 (2017.01); **B65B 41/18** (2006.01); **B65B 61/02** (2006.01)

CPC (source: EP US)

B65B 41/18 (2013.01 - EP US); **B65B 61/025** (2013.01 - EP US); **B31B 50/88** (2017.07 - EP US); **Y10T 156/1089** (2015.01 - EP US)

Citation (search report)

See references of WO 2004082948A1

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)

US 2006000540 A1 20060105; AT E384622 T1 20080215; AU 2004222171 A1 20040930; AU 2004222171 B2 20071018; CA 2519052 A1 20040930; CA 2519052 C 20120515; CN 100368205 C 20080213; CN 1761569 A 20060419; DE 10312889 B3 20040805; DE 502004006044 D1 20080313; EP 1608514 A1 20051228; EP 1608514 B1 20080123; ES 2297395 T3 20080501; JP 2006520700 A 20060914; JP 4416740 B2 20100217; WO 2004082948 A1 20040930

DOCDB simple family (application)

US 22104405 A 20050907; AT 04718180 T 20040306; AU 2004222171 A 20040306; CA 2519052 A 20040306; CN 200480007693 A 20040306; DE 10312889 A 20030322; DE 2004000440 W 20040306; DE 502004006044 T 20040306; EP 04718180 A 20040306; ES 04718180 T 20040306; JP 2005518624 A 20040306