

Title (en)

Method and device for changing the flight path of ink droplets

Title (de)

Verfahren und Vorrichtung zur Änderung der Flugbahn von Tintentropfen

Title (fr)

Procédé et dispositif pour changer la trajectoire de gouttelettes d'encre

Publication

EP 1795352 A1 20070613 (DE)

Application

EP 06017707 A 20060825

Priority

DE 102005059328 A 20051209

Abstract (en)

One plate capacitor (20) uses an electric field to deflect the electrostatically charged ink droplets (11) in diverging planes out of the intended original trajectory (100) of the droplets. Another plate capacitor (30) uses electric field to further deflect the droplets in the diverging planes such that the trajectories (103,104) of the droplets are made in parallel with each other. An independent claim is also included for an inkjet printer.

IPC 8 full level

B41J 2/09 (2006.01)

CPC (source: EP US)

B41J 2/12 (2013.01 - EP US)

Citation (search report)

- [XY] WO 8103149 A1 19811112 - COMMW SCIENT IND RES ORG [AU], et al
- [Y] DE 3414948 A1 19841025 - RICOH KK [JP]
- [X] US 4290073 A 19810915 - JINNAI KOICHIRO, et al
- [A] US 4068240 A 19780110 - FAN GEORGE JEE, et al
- [A] US 2004026479 A1 20040212 - FARNWORTH WARREN M [US]

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)

US 2007081051 A1 20070412; US 7393086 B2 20080701; DE 102005059328 A1 20070621; EP 1795352 A1 20070613

DOCDB simple family (application)

US 55087006 A 20061019; DE 102005059328 A 20051209; EP 06017707 A 20060825