

Title (en)

A DEP(Direct Electrostatic Printing)device with special printhead

Title (de)

Vorrichtung zum direkten elektrostatischen Drucken mit speziellem Druckkopf

Title (fr)

Dispositif d'impression électrostatique direct avec tête d'impression spéciale

Publication

**EP 0712056 A1 19960515 (EN)**

Application

**EP 95202968 A 19951102**

Priority

- EP 95202968 A 19951102
- EP 94203255 A 19941108

Abstract (en)

There is provided a device for direct electrostatic printing (DEP) on an intermediate substrate or on a final substrate, comprising a back electrode (105), a printhead structure (106) made from an insulating material comprising a control electrode in combination with printing apertures (107), a toner delivery means (101) presenting a cloud (104) of toner particles in the vicinity of said printing apertures (107), characterised in that said printhead structure (106) is tightly stretched over a frame by means of lateral forces applied to said printhead structure. The printhead structure (106) is tightly stretched over a frame by means of lateral forces exerted by resilient means (e.g. coil springs), so that the overall flatness of the printhead structure (106) becomes equal or better than 50 mu m. <IMAGE>

IPC 1-7

**G03G 15/34; B41J 2/415**

IPC 8 full level

**B41J 2/415** (2006.01); **G03G 15/34** (2006.01)

CPC (source: EP)

**B41J 2/4155** (2013.01); **G03G 15/346** (2013.01); **G03G 2217/0025** (2013.01)

Citation (applicant)

- US 3689935 A 19720905 - PRESSMAN GERALD L [US], et al
- GB 2108432 A 19830518 - CANON KK
- US 4568955 A 19860204 - HOSOYA MASAHIRO [JP], et al
- EP 0266961 A2 19880511 - XEROX CORP [US]
- EP 94291926 A
- US 5327169 A 19940705 - THOMPSON MICHAEL D [US]
- US 5170185 A 19921208 - TAKEMURA OSAMU [JP], et al
- EP 94201026 A 19940414
- US 5202704 A 19930413 - IWA0 NAOTO [JP]

Citation (search report)

- [A] EP 0587366 A1 19940316 - BROTHER IND LTD [JP]
- [A] US 5121144 A 19920609 - LARSON OVE [SE], et al
- [A] US 5204696 A 19930420 - SCHMIDLIN FRED [US], et al
- [DA] US 5202704 A 19930413 - IWA0 NAOTO [JP]
- [DA] GB 2108432 A 19830518 - CANON KK

Cited by

EP0795802A1; CN1095754C; EP0887191A3; EP0816944A1; US6102523A; US6203141B1; EP0851316A1; US6227655B1; WO0168371A1

Designated contracting state (EPC)

BE DE FR GB NL SE

DOCDB simple family (publication)

**EP 0712056 A1 19960515; EP 0712056 B1 19990804**

DOCDB simple family (application)

**EP 95202968 A 19951102**