

Title (en)

Electrostatographic multicolour printer for duplex printing on a web-type toner receptor material

Title (de)

Elektrostatographischer Vielfarbendrucker für Duplexdrucken auf einem gewebeartigen Toneraufnahmematerial

Title (fr)

Appareil d'impression électrostatographique multicolore pour impression recto-verso sur un matériau récepteur de révélateur en forme de tissu

Publication

EP 0742497 A1 19961113 (EN)

Application

EP 96201031 A 19960417

Priority

- EP 96201031 A 19960417
- EP 95201186 A 19950509

Abstract (en)

An electrostatographic printing apparatus is provided, suited for single-pass sequential multi-colour duplex printing, characterized in that the printing proceeds by depositing and fixing toner particles on a final substrate (1) in web form and the apparatus comprises : 1) two printing systems, a first (I) and a second (II) one, being arranged in succession at opposite sides of the final substrate (1), each of the printing systems comprising common guiding member (3) in the form of a rotatable endless surface member, 2) means for rotating the guiding member (3) for conveying the final substrate (1), 3) means, in each of the printing systems, for superimposing colour separation images, in the form of toner images, in registration on the final substrate (1) conveyed by the guiding member (3), and 4) means (18, 19) for reversing the charge polarity of the toner particles of the toner images that have been transferred on the final substrate in the first (I) printing system in case the toner particles used for development of electrostatic charge images in the first (I) and second (II) printing system have same charge polarity, the means (18, 19) being situated between the first (I) and second (II) printing system. In a preferred embodiment the means for superimposing colour separation images in registration on the final substrate (1) are a plurality of rotatable toner-image bearing photoconductive drums. <IMAGE>

IPC 1-7

G03G 15/00

IPC 8 full level

G03G 15/01 (2006.01); **G03G 15/23** (2006.01)

CPC (source: EP)

G03G 15/01 (2013.01); **G03G 15/238** (2013.01); **G03G 2215/00455** (2013.01); **G03G 2215/0103** (2013.01)

Citation (search report)

- [DY] EP 0629924 A1 19941221 - XEIKON NV [BE]
- [Y] US 5138363 A 19920811 - YUGE SHIZUO [JP]
- [A] US 5132712 A 19920721 - FLETCHER GERALD M [US], et al
- [DA] US 3694073 A 19720926 - BHAGAT GOPAL C
- [A] US 4427285 A 19840124 - STANGE KLAUS K [US]

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0742497 A1 19961113

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EP 96201031 A 19960417