

Title (en)

Electrostatographic multicolour printing apparatus for single-pass sequential duplex printing on a web-type toner receptor material

Title (de)

Elektrostatographischer Vielfarbendruckapparat für sequentielles Duplexdrucken in einem Durchlauf auf einem gewebeartigen Toneraufnahmematerial

Title (fr)

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

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Application

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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 (11) one, being arranged in succession at opposite sides of the final substrate (1), each of the printing systems comprising an intermediate rotatable toner-receiving member (3), 2) means, in each of the printing systems, for rotationally driving the intermediate toner-receiving member (3), 3) means, in each of the printing systems, for superimposing colour separation images in registration on the intermediate toner-receiving member (3), and 4) means, in each of the printing systems, for simultaneously transferring the superposed toner image from the toner-receiving member (3) onto the final substrate (1), the transferring means being a drum or roller (4) optionally electrically biased and forming with the intermediate toner-receiving member (3) a nip through which the final substrate (1) is passed in synchronism with the peripheral movement of the toner-receiving member (3). In a preferred embodiment of the invention, the colour separation images are applied in registration to said intermediate toner-receiving member by a plurality of rotatable image-producing electrostatographic drums. <IMAGE>

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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]

Cited by

EP0848300A1; DE102012222488A1; US6141523A; EP2444855A3; US5999785A; DE19827254A1; DE19827254B4; WO2014086900A1; WO2011096929A1; WO9827466A1; US8985022B2; US9176432B2

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