

Title (en)
Image transfer apparatus and method.

Title (de)
Bildübertragungsgerät und -verfahren.

Title (fr)
Appareil et méthode de transfert d'images.

Publication
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Application
EP 93203341 A 19900417

Priority
• EP 90907505 A 19900417
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• US 39364989 A 19890814

Abstract (en)
[origin: WO9103006A1] An imaging system including an image bearing surface (16) and an intermediate transfer member (40) operative for transfer of liquid toner images from the image bearing surface (16) to a substrate (42) provides for first transfer engagement between the intermediate transfer member (40) and the image bearing surface (16) for transfer of an image from the image bearing surface to the intermediate transfer member (40) at a first pressure, producing deformation of the intermediate transfer member (40) to a first deformation degree. The system also provides for second transfer engagement between the intermediate transfer member (40) and the substrate (42) for transfer of the image from the intermediate transfer member to the substrate at a second pressure, producing deformation of the intermediate transfer member (40) to a second deformation degree. In one preferred embodiment the intermediate transfer member (40) includes a compressible layer having a transfer surface, a backing layer disposed away from the image bearing surface and a heating layer. The heating layer is disposed intermediate the backing layer and the transfer surface.

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G03G 15/16

IPC 8 full level
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Citation (search report)
• [DA] US 4708460 A 19871124 - LANGDON MICHAEL J [US]
• [DA] EP 0176143 A1 19860402 - OCE NEDERLAND BV [NL]
• [A] EP 0318078 A1 19890531 - OCE NEDERLAND BV [NL]
• [A] OGASAWARA ET AL.: "High Quality Toner Image Transfer in Electrophotographic Printing", FUJITSU-SCIENTIFIC AND TECHNICAL JOURNAL, vol. 24, no. 3, September 1988 (1988-09-01), KAWASAKI JP, pages 235 - 241, XP000005802

Cited by
EP0741340A1; US6551716B1; US6969543B1; WO9707433A3

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WO 9103006 A1 19910307; CA 2064816 A1 19910215; CA 2064816 C 20011106; DE 69027777 D1 19960814; DE 69027777 T2 19970220; DE 69031779 D1 19980115; DE 69031779 T2 19980618; EP 0487530 A1 19920603; EP 0487530 B1 19960710; EP 0584893 A2 19940302; EP 0584893 A3 19941026; EP 0584893 B1 19971203; EP 0791860 A2 19970827; EP 0791860 A3 19971203; JP 3086858 B2 20000911; JP H04507148 A 19921210

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