

Title (en)

Device and method for fixing and glossing toner images

Title (de)

Vorrichtung und Verfahren zum Fixieren und Glänzendmachen von Tonerbildern

Title (fr)

Dispositif et méthode pour fixer et rendre brillantes des images de toner

Publication

EP 0848304 A2 19980617 (EN)

Application

EP 97308324 A 19971020

Priority

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- EP 96309131 A 19961213
- US 80706197 A 19970227

Abstract (en)

The device for fixing an unfixed toner particle image (42) on a substrate (40) comprises a belt (12) in face-to-face contact with a reaction surface such as a further belt (14) to form an extended contact zone (Z1) therebetween, to define a substrate path extending through the contact zone (Z1) from an entrance (16) to an exit (18). Heating means (20) heat the belt (12) adjacent the entrance (16) to a temperature above the softening point T_g of the toner. Cooling means (24) forcibly cool the belt (12) intermediate the entrance (16) and the exit (18) to a temperature below the softening point T_g of the toner. Means (32, 34) are provided for applying pressure between the belts (12, 14) intermediate the entrance and exit. Second heating means (28) heat the belt (12) adjacent the exit (18) to a temperature above the softening point T_g of said toner. Thereby un-fixed toner images formed on the substrate can be fixed thereto and provided with a desirable level of gloss in one single device. <IMAGE>

IPC 1-7

G03G 15/20

IPC 8 full level

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CPC (source: EP)

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Cited by

DE102008063320B3; US11409211B2; US6623897B2; US5970301A; US8644720B2; US7088946B2; WO2005101132A3; WO2009076984A1

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