

Title (en)

Image forming method on heat-sensitive recording material.

Title (de)

Verfahren zur Bildformung auf wärmeempfindlichem Aufzeichnungsmaterial.

Title (fr)

Méthode pour former des images sur des matériaux d'enregistrement thermosensibles.

Publication

EP 0420674 B1 19941228 (EN)

Application

EP 90310652 A 19900928

Priority

- JP 21849990 A 19900820
- JP 25326189 A 19890928

Abstract (en)

[origin: EP0420674A1] A recording material is prepared having a support (e.g., of paper and/or a polymer) on which is a layer containing polymeric (e.g., polyurea) microcapsules preferably of Tg 80 to 150 DEG C containing a light-absorbent (preferably carbon black in a coverage of 0.1 to 10 g/m<2>, optionally with a dye or pigment), a polymeric binder and an oil-soluble solvent. The recording material is placed or wrapped around, a heated roller and heated to 10 to 50 DEG C below the Tg of the microcapsules whilst being patternwise irradiated with a laser beam which makes the capsules walls more easily broken; the image-receiving film is then wrapped around the irradiated material and pressure of 40 to 490 Pa x 10<5> exerted, whereby a visible negative image of the light-absorbent and binder is formed on the image-receiving film. If the receiving film is transparent, both films can be initially placed in contact and exposure made through the receiving film with a beam focussed on the film interface; and a positive image is then also formed in the receiving film. The method gives a good image of high density using a low-power laser.

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