

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

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- 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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CPC (source: EP)

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