

Title (en)

Image-forming by heating recording material containing light-sensitive organic substance.

Title (de)

Wärmeentwickelbares Aufzeichnungsmaterial mit einer lichtempfindlichen organischen Verbindung.

Title (fr)

Matériau d'enregistrement à formation d'image par la chaleur, contenant une substance photosensible organique.

Publication

EP 0361898 B1 19941207 (EN)

Application

EP 89309841 A 19890927

Priority

- JP 24122388 A 19880927
- JP 24122488 A 19880927

Abstract (en)

[origin: EP0361898A2] A recording material contains on a 20 - 200 μ m thick paper or plastics support a 2 - 30 μ m layer of a dispersion of particles of a light-sensitive organic substance which forms a decomposition product when light-exposed and an organic substance which reacts imagewise (e.g. a diazo compound and its coupler or a photo-oxidizing agent and a leuco dye); at least one of these may be microencapsulated. The material is imagewise exposed, e.g. from a fluorescent lamp, and overall heated in two steps, firstly at a temperature (e.g. 60 - 90 DEG C) at which no formation or fixing of the image occurs and then at a higher temperature (e.g. 80 - 150 DEG C) to cause the reaction to form a visible image. The first heating can be at the time of the imagewise exposure, e.g. by the heat from the lamp. The material is transferred between the heating steps as fast as possible. The use of the first heating allows less energy to be used for the development step. Diazo material used can contain other components such as a color forming aid or substance fusible at 50 - 150 DEG C. Visible images are formed of good colour density, low background fog and good shelf life before use.

IPC 1-7

G03C 1/52; **G03C 5/18**

IPC 8 full level

G03C 1/52 (2006.01); **G03C 5/18** (2006.01)

CPC (source: EP)

G03C 1/52 (2013.01); **G03C 5/18** (2013.01)

Citation (examination)

EP 0337734 A2 19891018 - FUJI PHOTO FILM CO LTD [JP]

Cited by

EP0600542A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0361898 A2 19900404; **EP 0361898 A3 19900816**; **EP 0361898 B1 19941207**; DE 68919791 D1 19950119; DE 68919791 T2 19950622

DOCDB simple family (application)

EP 89309841 A 19890927; DE 68919791 T 19890927