

## Title (en)

PROCESS FOR PREPARING A THERMOCHROMIC VARNISH, COATING PREPARED THEREFROM AND UTILIZATION THEREOF

## Publication

**EP 0030939 B1 19840418 (DE)**

## Application

**EP 80900487 A 19810126**

## Priority

CH 598779 A 19790627

## Abstract (en)

[origin: WO8100084A1] For the preparation of a thermochromic varnish and appropriate mixture for the serigraphy of two or three storable compounds is used. The first compound is a heavy or noble metal compound dispersed in a resin based solution. The second compound is a compound covalent of sulphur and carbon, dispersable in the resin based solution or into a resin hardener and the third compound is a hardener. The resin and the metal compound are in stoichiometric proportions with respectively the hardener and the compound covalent of sulphur and carbon. The metal compound is a derivative of an oxide, of an inorganic anion or of a mono or dicarboxylic acid, forming with sulphur ions, metal sulphides of irreversible black colour. The resin is a prepolymer of a methacrylic acid or of a glycidyl ether and the hardener is a diol or an amine. The thermochromic coating has a thickness of 10 to 1000 Å and is subjected to an irreversible and local black coloration with a heating element. The varnish coatings are used on credit cards with optical markings which may be thermally erased and of which the erasure may be made visible by blackening.

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**B41M 5/26**

## IPC 8 full level

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