

Title (en)

Radiation-sensitive mixture and recording material made thereof for offset printing plates

Title (de)

Strahlungsempfindliches Gemisch und damit hergestelltes Aufzeichnungsmaterial für Offsetdruckplatten

Title (fr)

Composition photosensible et matériel pour l'enregistrement pour plaques lithographiques préparé à partir de cette composition

Publication

EP 0867278 B1 20011121 (DE)

Application

EP 98105080 A 19980320

Priority

DE 19712323 A 19970324

Abstract (en)

[origin: EP0867278A1] Positive-or negative-working radiation-sensitive mixture contains a carbon black pigment (I) with a primary particle size < 80 nm as infra-red (IR)-absorbing component. This is pre-dispersed in a polymer (II) containing acid units with a pKa value < 13. Also claimed are: (i) recording material with a substrate and a radiation-sensitive layer of this mixture; and (ii) a method of making a printing plate. Preferably (I) has a BET surface area NOTLESS 30 m²/g and a pH < 7 in aqueous dispersion. The average primary particle size is < 60, especially < 30 nm. PREFERRED POLYMER - In (II), the acid units have an acid proton linked to a hetero-atom and especially have amino (-NH₂), imino (-NH-), phenolic hydroxyl (-OH) or carboxyl (-COOH) groups. (II) contains NOTLESS 1, especially NOTLESS 1.5 mmole acid groups/g

IPC 1-7

B41C 1/10; **B41M 5/40**

IPC 8 full level

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CPC (source: EP US)

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Ullmann's Encyclopedia of Industrial Chemistry, 5th edition, volume A5, pages 154 to 157

Cited by

US6090532A; EP1156371A3; EP0900653A1; US6124425A; US6063544A; US6165685A; EP0900652A3; US6352814B1; US6177182B1; US6218083B1; US6280899B1

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