

Title (en)

HEAT-SENSITIVE IMAGING ELEMENT FOR PROVIDING LITHOGRAPHIC PRINTING PLATES

Title (de)

WÄRMEEMPFLINDLICHES BILDAUFZEICHNUNGSELEMENT ZUR HERSTELLUNG LITHOGRAPHISCHER DRUCKPLATTEN

Title (fr)

ELEMENT THERMOSENSIBLE POUR PREPARER UNE PLAQUE D'IMPRESSION LITHOGRAPHIQUE

Publication

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Application

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Abstract (en)

[origin: WO0139985A2] An imaging member, such as a negative-working printing plate or on-press cylinder, can be prepared using a hydrophilic imaging layer comprised of a heat-sensitive hydrophilic polymer that comprises recurring units comprising quaternary ammonium carboxylate groups. In a preferred embodiment, the quaternary ammonium carboxylate groups include at least one substituted -alkylene (C1-C3)-phenyl group. The imaging member can also include an infrared radiation sensitive material to provide added sensitivity to heat that can be supplied by laser irradiation in the IR region. The heat-sensitive polymer is considered "switchable" in response to heat, and provides a lithographic image without wet processing.

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