

Title (en)
Colour writing or marking of plastics and lacquers

Title (de)
Farbige Beschriftung und Markierung von Kunststoffen und Lacken

Title (fr)
Ecriture et marquage en couleur sur une matière synthétique ou sur une surface laquée

Publication
EP 1279517 B1 20060215 (DE)

Application
EP 02016489 A 20020723

Priority
DE 10136479 A 20010727

Abstract (en)
[origin: EP1279517A2] Surprisingly, it has been found that colored recordings or inscriptions can be made on laser markable synthetic plastic and paints when their surfaces are coated with a mixture of colorants and absorbing substances, which are partially drawn into or cover the surface. The colorant in combination with the laser light absorbing substance is drawn into the synthetic plastic or paint surface melted by laser radiation, and the inscriptions have high abrasion resistance. Independent claims are included for: (1) A process for colored inscription and colored marking of synthetic plastics and paints, in which the synthetic plastics or paint surfaces are coated with a mixture of one or more laser light absorbing substances, and this layer is partially or over the whole surface transferred partially or completely into the synthetic plastic or paint; (2) a shaped body in synthetic plastic, paint or powdered paint inscribed or marked by the process.

IPC 8 full level
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CPC (source: EP US)
B41M 5/267 (2013.01 - EP US); **Y10S 430/165** (2013.01 - EP US)

Cited by
EP1918096A3; EP2065165A1; US8278243B2; EP2946938A1; CN105082812A; CN102171104A; EP2674296A3; US7833617B2; US8877332B2; US8343412B2; US9835943B2; WO2005097514A1; WO2009068207A1; US8435205B2; US8926547B2; WO2013135416A1; EP2946938B1

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