

Title (en)

Process and device for marking products of transparent (solid) material with a laser

Title (de)

Verfahren und Vorrichtung zur Kennzeichnung von Erzeugnissen aus transparenten (festen) Werkstoffen mittels Laser

Title (fr)

Procédé et dispositif pour le marquage de produits en matériaux transparents (solides) au moyen d'un laser

Publication

EP 0743128 B1 20020227 (DE)

Application

EP 96106863 A 19960501

Priority

LT 95051 A 19950512

Abstract (en)

[origin: EP0743128A1] Method of marking products made of transparent materials involves (i) concentration of a laser beam (2) in the material (5), which does not absorb the beam, at a predetermined location (4), (ii) destruction of the material by laser pulses and (iii) formation of the marking symbol by displacement of the laser beam. Destruction of the material at that location takes place in two stages. In the first stage, the resistance of the material to laser radiation is altered, while, in the second stage, destruction of the material takes place at that location. Also claimed is an appts. for implementation of the method.

IPC 1-7

B23K 26/00; **B44B 7/00**

IPC 8 full level

B23K 26/00 (2006.01); **B44B 7/00** (2006.01)

CPC (source: EP)

B41M 5/26 (2013.01); **B44B 7/00** (2013.01)

Cited by

US6720523B1; US6768080B2; EP1138516A3; US6664501B1; DE19925801A1; DE19925801B4; DE19728766C1; US6055829A; US8541105B2; US6740846B1; US6426480B1; WO2005054841A1; US6630644B2; US6727460B2; US6490299B1; US6333486B1; US6768081B2; US6399914B1; US7743639B2; US6734389B2; US6509548B1; US6417485B1; EP0890554B1

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