

Title (en)

LASER-MARKING OF PLASTIC OBJECTS IN ANY FORM BY MEANS OF SPECIAL EFFECTS

Publication

EP 0413664 A3 19911016 (DE)

Application

EP 90810601 A 19900809

Priority

CH 301189 A 19890818

Abstract (en)

[origin: EP0413664A2] Method of laser-marking plastic objects in any form, by which the object to be marked contains a radiation-sensitive additive, causing a change in the light reflection, and is exposed to a laser beam in such a way that it is moulded by means of a mask according to the shape of the marking to be applied, or is passed over the surface of the object to be marked so that a visual effect marking is produced at the irradiated points of the object, without the surface of the marked object being perceptibly damaged, characterised in that molybdenum disulphide is used as the additive and the laser parameters of wavelength, pulse energy density and pulse width are chosen such that an effect marking is produced of which the contrast visually changes according to the angle of illumination and observation.

IPC 1-7

B41M 5/24; **B41M 1/30**

IPC 8 full level

B41M 5/26 (2006.01); **C08J 7/00** (2006.01); **C08K 3/28** (2006.01); **C08K 3/30** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP US)

B41M 5/267 (2013.01 - EP US); **Y10S 430/146** (2013.01 - EP US); **Y10S 430/165** (2013.01 - EP US)

Citation (search report)

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- [A] EP 0327508 A2 19890809 - CIBA GEIGY AG [CH]
- [A] US 4609611 A 19860902 - SIGYO MASAMITI [JP], et al

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