

Title (en)

Process for decorating or marking a surface by means of laser radiation and use of a stamping foil in this process

Title (de)

Verfahren zur Dekoration oder Beschriftung einer Oberfläche mittels Laserstrahlung sowie Verwendung einer Prägefolie in diesem Verfahren

Title (fr)

Procédé pour décorer ou marquer une surface par radiation laser et utilisation d'une feuille à estamper dans ce procédé

Publication

EP 0537668 B2 20040102 (DE)

Application

EP 92117433 A 19921013

Priority

DE 4134271 A 19911017

Abstract (en)

[origin: EP0537668A2] A process for decorating or marking a surface by means of laser radiation is proposed, in which at least the upper or first layer of coloured lacquer to be deposited by means of the laser beam is applied to the surface in a transfer process, in order to achieve a uniform thickness of this layer of coloured lacquer and consequently achieve a very uniform gravure. Furthermore, the use of stamping foils, in particular hot-stamping foils, of a particular design is described in the case of such a process. <IMAGE>

IPC 1-7

B44C 1/02; **B44C 1/17**; **B44C 1/22**; **B41M 5/24**; **B41M 5/38**

IPC 8 full level

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CPC (source: EP US)

B41M 5/24 (2013.01 - EP US); **B44C 1/02** (2013.01 - EP US); **B44C 1/1729** (2013.01 - EP US); **B44C 1/228** (2013.01 - EP US); **B41M 5/34** (2013.01 - EP US)

Citation (opposition)

Opponent :

- US 4515867 A 19850507 - BLEACHER JOHN N [US], et al
- US 3930924 A 19760106 - OKA SATOSHI, et al
- DE 2240553 A1 19740228 - SIEMENS AG
- DE 3926578 C1 19900726
- DE 8130861 U1 19811022
- ICI-Films - Melinex - Polyester Film - Metallising; Industry Note MX203 sixth edition, 1986, Seiten 4,5,6,8

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WO2020064404A1; EP0734885A3; DE102018123473A1; CN112770915A; US7255911B2; US7403651B2; WO2015177663A1; WO2008092949A1; US6723479B2; US7022442B2; WO2022072765A1; WO2022082044A1

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US 5985078 A 19991116; AT E154550 T1 19970715; DE 4134271 C1 19921224; DE 59208628 D1 19970724; DK 0537668 T3 19980112; EP 0537668 A2 19930421; EP 0537668 A3 19950118; EP 0537668 B1 19970618; EP 0537668 B2 20040102; ES 2104788 T3 19971016; ES 2104788 T5 20040901; HK 1006297 A1 19990219; JP 2858513 B2 19990217; JP H05305763 A 19931119

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US 96089292 A 19921014; AT 92117433 T 19921013; DE 4134271 A 19911017; DE 59208628 T 19921013; DK 92117433 T 19921013; EP 92117433 A 19921013; ES 92117433 T 19921013; HK 98105529 A 19980617; JP 27389192 A 19921013