

Title (en)

A METALLIC OBJECT PROVIDED WITH AREAS OF CONTRASTING APPEARANCE

Title (de)

EIN METALLISCHER GEGENSTAND MIT VISUELL KONTRASTIERENDEN OBERFLÄCHENBEREICHEN

Title (fr)

OBJET METALLIQUE POURVU DE ZONES CONTRASTANT EN APPARENCE

Publication

EP 0923457 B1 20010718 (EN)

Application

EP 97944864 A 19970909

Priority

- DE 19636763 A 19960910
- DE 19701547 A 19970117
- EP 9704937 W 19970909

Abstract (en)

[origin: WO9810945A1] The present invention relates to a process for making visually contrasting structures on a metallic substrate (1), characterized in that the substrate which is coated with a single coloured layer (2) is partially subjected to the energy of a laser beam in such a way that a transparent remainder (3) of the layer is maintained on the treated area; a metallic substrate which is provided with visually contrasting structures, characterized in that a single coloured layer is present on part of the substrate, while on the remaining part of the substrate in place of this layer a single transparent layer which is substantially thinner as compared to the single coloured layer is present; and containers and cans made from the said substrate.

IPC 1-7

B44C 1/22; **B41M 5/24**; **B41M 5/36**; **B41M 5/26**; **B65D 17/34**

IPC 8 full level

B41M 5/24 (2006.01); **B44C 1/22** (2006.01); **B44C 3/00** (2006.01); **B65D 1/12** (2006.01); **B65D 25/20** (2006.01)

CPC (source: EP KR)

B41M 5/24 (2013.01 - EP); **B44C 1/22** (2013.01 - EP KR); **B44C 3/005** (2013.01 - EP); **B65D 1/12** (2013.01 - KR); **B65D 25/205** (2013.01 - EP)

Cited by

WO2013044095A1; WO2018138232A3; WO2010091088A1; US8146768B2; WO2011115815A1; US8844747B2; US9186924B2; US10118729B2

Designated contracting state (EPC)

AT BE DE DK ES FR GB IE IT LU NL SE

DOCDB simple family (publication)

WO 9810945 A1 19980319; AT E203214 T1 20010815; CN 1230149 A 19990929; CZ 294792 B6 20050316; CZ 81199 A3 19991013; DE 29716186 U1 19971106; DK 0923457 T3 20011105; EP 0923457 A1 19990623; EP 0923457 B1 20010718; ES 2161476 T3 20011201; KR 100488321 B1 20050712; KR 20000036018 A 20000626; PL 185452 B1 20030530; PL 331938 A1 19990816; SK 284674 B6 20050908; SK 31599 A3 19991008; TR 199900518 T2 19990721

DOCDB simple family (application)

EP 9704937 W 19970909; AT 97944864 T 19970909; CN 97197747 A 19970909; CZ 81199 A 19970909; DE 29716186 U 19970909; DK 97944864 T 19970909; EP 97944864 A 19970909; ES 97944864 T 19970909; KR 19997001992 A 19990310; PL 33193897 A 19970909; SK 31599 A 19970909; TR 9900518 T 19970909