

Title (en)

Use of graft copolymers for the manufacture of relief laser-markable elements

Title (de)

Verwendung von Pfropfcopolymeren zur Herstellung lasergravierbarer Reliefdruckelementen

Title (fr)

Utilisation de copolymères greffés pour la fabrication d'éléments marquables au laser en relief

Publication

EP 1136254 B1 20030528 (DE)

Application

EP 01106885 A 20010320

Priority

- DE 10014049 A 20000323
- DE 10040926 A 20000818

Abstract (en)

[origin: EP1136254A2] Graft copolymers (I) produced by radical polymerization of vinyl esters in the presence of polyalkylene oxides followed by at least partial hydrolysis of the ester functions are used to produce laser-engravable relief printing plates. An Independent claim is also included for a process for producing flexographic printing plates, comprising laser engraving of a relief in a laser-engravable element comprising a crosslinked relief layer comprising (I) and optionally an infrared absorber on a dimensionally stable transparent or metal support.

IPC 1-7

B41C 1/05; B41N 1/06

IPC 8 full level

B41C 1/05 (2006.01); **B41N 1/06** (2006.01); **B41N 1/12** (2006.01); **C08F 8/00** (2006.01); **C08F 8/12** (2006.01); **C08F 283/06** (2006.01)

CPC (source: EP US)

B41C 1/05 (2013.01 - EP US); **B41N 1/12** (2013.01 - EP US); **Y10S 430/145** (2013.01 - EP US); **Y10S 430/146** (2013.01 - EP US)

Cited by

US7290487B2; CN102517568A; EP2236290A1; EP1985289A3; EP1516745A4; CN104981355A; US8663684B2; US7255976B2; US7479476B2; WO0217020A1; WO0307022A1; WO03045693A1; US7033724B2; US8545661B2; WO2008080774A1; WO2008025508A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 1136254 A2 20010926; EP 1136254 A3 20020911; EP 1136254 B1 20030528; DE 50100265 D1 20030703; JP 2001328365 A 20011127; JP 4808322 B2 20111102; US 2001044076 A1 20011122; US 6627385 B2 20030930

DOCDB simple family (application)

EP 01106885 A 20010320; DE 50100265 T 20010320; JP 2001082795 A 20010322; US 81473801 A 20010323