

Title (en)

Lithographic printing plate and method for producing the same.

Title (de)

Lithographische Druckplatte und Verfahren zu ihrer Herstellung.

Title (fr)

Plaque pour impression lithographique et procédé pour sa fabrication.

Publication

**EP 0030642 A2 19810624 (EN)**

Application

**EP 80107228 A 19801120**

Priority

US 10396579 A 19791217

Abstract (en)

An improved lithographic printing plate includes a substrate layer (21 of a nonconducting, hydrophobic material, an intermediate film (3) of conducting, hydrophilic material such as aluminum and a top protective film (5) of relatively hard hydrophilic dielectric material, such as aluminum oxide. A printing image is formed in the lithographic printing plate by an electroerosion process wherein erosion electrodes (7) are pulsed with voltage to break down the dielectric film (5) in areas adjacent to the erosion electrodes (7) and to evaporate or otherwise remove corresponding portions of the conducting film (3), thereby creating holes (8) that extend through the dielectric (5) and conducting (3) films and that expose portions of the surface of the underlying hydrophobic substrate (2).

IPC 1-7

**B41C 1/10**; **B41M 5/24**

IPC 8 full level

**B41C 1/10** (2006.01); **B41N 1/10** (2006.01); **B41C 1/00** (2006.01); **B41N 1/14** (2006.01); **B41N 3/03** (2006.01)

CPC (source: EP)

**B41C 1/1033** (2013.01); **B41N 3/03** (2013.01)

Cited by

EP0761471A3; US6107001A; EP0164461A1; EP0101266A3; EP0088139A1; EP0628409A1; US4834844A; GB2200323A; GB2200323B; EP0849029A1; US4614570A; US6045964A; US4840709A; EP0825021A3; EP1099547A3; WO8402308A1; WO9850231A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0030642 A2 19810624**; **EP 0030642 A3 19820526**; CA 1144418 A 19830412; IT 1149864 B 19861210; IT 8026395 A0 19801203; JP S5693590 A 19810729; JP S6151558 B2 19861110

DOCDB simple family (application)

**EP 80107228 A 19801120**; CA 362742 A 19801020; IT 2639580 A 19801203; JP 17106880 A 19801205