

Title (en)

Imaging and erasure of a printing form made from a polymer having imide groups

Title (de)

Bebildung und Löschung einer Druckform aus Polymermaterial mit Imid-Gruppen

Title (fr)

Formation et effacement d'images sur une plaque d'impression fabriquée d'un polymère ayant des groupes imides

Publication

EP 1254768 A3 20030903 (DE)

Application

EP 02007336 A 20020405

Priority

DE 10121561 A 20010503

Abstract (en)

[origin: EP1254768A2] Production of a structure of hydrophilic areas (34) and hydrophobic areas (32) on an unstructured polyimide surface comprises site-selective irradiation with electromagnetic energy followed by chemical treatment with an oxidizing agent. Independent claims are also included for the following: (1) a printing plate with a polyimide surface; (2) a printing unit comprising the printing plate of (1); (3) a printing machine comprising a feeder, at least one printing unit as in (2), and a collector.

IPC 1-7

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IPC 8 full level

B41F 7/02 (2006.01); **B41C 1/10** (2006.01); **B41N 1/14** (2006.01); **G03F 7/00** (2006.01); **G03F 7/004** (2006.01); **G03F 7/037** (2006.01); **G03F 7/038** (2006.01); **G03F 7/38** (2006.01)

CPC (source: EP US)

B41C 1/1041 (2013.01 - EP US)

Citation (search report)

- [XA] EP 0743177 A1 19961120 - NIPPON PAINT CO LTD [JP]
- [A] US 4634659 A 19870106 - ESUMI KUNIO [JP], et al
- [A] DD 103977 A1 19740212
- [A] EP 0872339 A1 19981021 - EASTMAN KODAK CO [US]
- [AD] US 4568632 A 19860204 - BLUM SAMUEL E [US], et al
- [A] DATABASE WPI Section Ch Week 199234, Derwent World Patents Index; Class A26, AN 1992-281771, XP002246951

Cited by

EP2236289A3; EP1580595A2

Designated contracting state (EPC)

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EP 1254768 A2 20021106; **EP 1254768 A3 20030903**; **EP 1254768 B1 20050209**; AT E288830 T1 20050215; CN 1264676 C 20060719; CN 1387998 A 20030101; CZ 20021199 A3 20030115; CZ 300557 B6 20090617; DE 10121561 A1 20021107; DE 50202196 D1 20050317; DK 1254768 T3 20050411; HK 1053087 A1 20031010; HK 1053087 B 20070112; JP 2003011316 A 20030115; JP 4657563 B2 20110323; US 2002177053 A1 20021128; US 6919165 B2 20050719

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