

Title (en)

IR-sensitive positive working lithographic printing plate precursor

Title (de)

Infrarotempfindlicher positivarbeitender Litographiedruckplattenvorläufer.

Title (fr)

Précurseur de plaque d'impression lithographique de type positive sensible aux rayons infrarouges

Publication

EP 1747900 A1 20070131 (EN)

Application

EP 05016409 A 20050728

Priority

EP 05016409 A 20050728

Abstract (en)

IR-sensitive element comprising (a) a substrate with a hydrophilic surface, and (b) a positive working coating comprising (i) at least 40 wt.-%, based on the dry weight of the coating, of at least one polymer which comprises phenolic OH groups and/or sulfonamide groups and is soluble in aqueous alkaline developer, (ii) at least one arylpolysiloxane resin having a hydroxy content of at least 1 wt.-% based on the weight of the resin and a glass transition temperature in excess of 60°C, (iii) at least one substance capable of absorbing radiation of a wavelength from the range of 650 to 1,300 nm and converting it into heat, and (iv) optionally at least one further component selected from print-out dyes, plasticizers, surfactants, inorganic fillers, antioxidants, contrast dyes and pigments, and polymer particles.

IPC 8 full level

B41C 1/10 (2006.01); **B41M 5/36** (2006.01)

CPC (source: EP)

B41C 1/1008 (2013.01); **B41M 5/368** (2013.01); **B41C 2210/02** (2013.01); **B41C 2210/06** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/262** (2013.01)

Citation (applicant)

- US 4708925 A 19871124 - NEWMAN STEPHEN [GB]
- GB 2082339 A 19820303 - HORSELL GRAPHIC IND LTD
- US 5372907 A 19941213 - HALEY NEIL F [US], et al
- US 5491046 A 19960213 - DEBOER CHARLES D [US], et al
- EP 0823327 A2 19980211 - MITSUBISHI CHEM CORP [JP]
- EP 1241003 A2 20020918 - KODAK POLYCHROME GRAPHICS CO [US]
- WO 9921725 A1 19990506 - HORSELL GRAPHIC IND LTD [GB], et al
- WO 2005016645 A1 20050224 - KODAK POLYCHROME GRAPHICS GMBH [DE], et al

Citation (search report)

- [AD] WO 9921725 A1 19990506 - HORSELL GRAPHIC IND LTD [GB], et al
- [AD] WO 0035994 A1 20000622 - WACKER CHEMIE GMBH [DE], et al

Cited by

US8283101B2; WO2009032080A1

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DE FR GB

Designated extension state (EPC)

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