

Title (en)
MULTILAYER IMAGEABLE ELEMENTS

Title (de)
MEHRLAGIGE ABBILDBARE ELEMENTE

Title (fr)
ELEMENTS DE FORMATION D'IMAGE MULTICOUCHES

Publication
EP 1654119 B1 20101124 (EN)

Application
EP 04780824 A 20040811

Priority

- US 2004026048 W 20040811
- US 64188803 A 20030814
- US 57731304 P 20040604

Abstract (en)
[origin: WO2005018934A1] Multilayer, positive working, thermally imageable, bakeable imageable elements are disclosed. The elements have a substrate, an underlayer, and a top layer. The underlayer comprises a polymeric material that comprises, in polymerized form about 5 mol% to about 30 mol% of methacrylic acid; about 20 mol% to about 75 mol% of N-phenylmaleimide, N-cyclohexylmaleimide, N-benzylmaleimide, or a mixture thereof; optionally, about 5 mol% to about 50 mol% of methacrylamide; and about 3 mol% to about 50 mol% of a compound represented by the formula: CH₂C(R₂)C(O)NHCH₂OR₁, in which R₁ is C₁ to C₁₂ alkyl, phenyl, C₁ to C₁₂ substituted phenyl, C₁ to C₁₂ aralkyl, or Si(CH₃)₃; and R₂ is H or methyl. Other materials, such as a resin or resins having activated methylol and/or activated alkylated methylol groups, such as a resole resin, may be present in the underlayer. The elements produce bakeable lithographic printing plates that are resistant to press chemistries.

IPC 8 full level
B41C 1/10 (2006.01); **B41M 5/36** (2006.01)

CPC (source: EP)
B41C 1/1016 (2013.01); **B41C 2210/02** (2013.01); **B41C 2210/06** (2013.01); **B41C 2210/14** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/262** (2013.01)

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
WO 2005018934 A1 20050303; DE 602004030255 D1 20110105; EP 1654119 A1 20060510; EP 1654119 B1 20101124

DOCDB simple family (application)
US 2004026048 W 20040811; DE 602004030255 T 20040811; EP 04780824 A 20040811