

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: CH<sub>2</sub>C(R<sub>2</sub>)C(O)NHCH<sub>2</sub>OR<sub>1</sub>, in which R<sub>1</sub> is C<sub>1</sub> to C<sub>12</sub> alkyl, phenyl, C<sub>1</sub> to C<sub>12</sub> substituted phenyl, C<sub>1</sub> to C<sub>12</sub> aralkyl, or Si(CH<sub>3</sub>)<sub>3</sub>; and R<sub>2</sub> 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