

Title (en)
Reusable printing plate

Title (de)
Wiederverwendbare Druckform

Title (fr)
Plaque d'impression réutilisable

Publication
EP 1375136 B1 20080213 (DE)

Application
EP 03011112 A 20030522

Priority
DE 10227054 A 20020617

Abstract (en)
[origin: EP1375136A1] A reusable printing form comprises a printing area having a metal oxide surface that is treated with amphiphilic organic compound having a polar region with an acidic character. Independent claims are also included for: (a) a printing unit or printing machine having at least reusable printing form; (b) a method for imaging a reusable printing form comprising producing an image on the printing area by selectively inputting energy on a dot-by-dot basis, and erasing the image through large-surface input of energy subsequent to printing on a printing substrate; and (c) a method for creating an imageable printing area comprising treating the metal oxide surface with amphiphilic organic compound(s) having a polar region with an acidic character.

IPC 8 full level
B41C 1/10 (2006.01); **G03F 7/004** (2006.01); **B41N 1/00** (2006.01); **B41N 1/14** (2006.01); **B41N 3/00** (2006.01); **G03F 7/00** (2006.01)

CPC (source: EP)
B41C 1/1008 (2013.01); **B41C 1/1041** (2013.01); **B41N 1/006** (2013.01); **B41N 3/006** (2013.01)

Cited by
EP1700709A3; CN102202887A; CN101332698A; US8798104B2; US8256346B2; DE102007041378A1; US8256347B2; DE102012021983A1; WO2010017068A3; WO2010029342A1; US8807029B2; US9545785B2; US9586392B2; US9956756B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1375136 A1 20040102; EP 1375136 B1 20080213; AT E385894 T1 20080315; CN 101121351 A 20080213; CN 101121351 B 20120222; CN 1329212 C 20070801; CN 1470396 A 20040128; DE 10227054 A1 20031224; DE 10227054 B4 20130103; DE 50309140 D1 20080327; DK 1375136 T3 20080602; HK 1062662 A1 20041119; JP 2004042633 A 20040212; JP 4679806 B2 20110511

DOCDB simple family (application)
EP 03011112 A 20030522; AT 03011112 T 20030522; CN 03145004 A 20030617; CN 200710128719 A 20030617; DE 10227054 A 20020617; DE 50309140 T 20030522; DK 03011112 T 20030522; HK 04105536 A 20040727; JP 2003169015 A 20030613