

Title (en)

OPTICAL SYSTEM FOR DIRECT IMAGING OF LIGHT MARKABLE MATERIAL

Title (de)

OPTISCHES SYSTEM FÜR DIE DIREKTE ABBILDUNG VON LICHTMARKIERBAREM MATERIAL

Title (fr)

SYSTÈME OPTIQUE POUR IMAGERIE DIRECTE DE MATÉRIAU SENSIBLE À LA LUMIÈRE

Publication

EP 2437912 A2 20120411 (EN)

Application

EP 09845633 A 20090603

Priority

US 2009046184 W 20090603

Abstract (en)

[origin: WO2010141017A2] An imaging system. An array of light sources and an array of lenses corresponding to the light sources and having optical axes substantially parallel to one another are provided. The lenses produce collimated output beams. An afocal optical relay having an optical axis substantially parallel to the optical axes of the lenses is also included, the array of lenses being positioned relative to the afocal optical relay so as to form an optical system that produces an image of each collimated output beam on an image plane, each image having a prescribed depth of focus and spot size. The light sources preferably are lasers producing an array of respective laser beams having high intensity and a long waist. A system for writing information on a light-sensitive label includes the imaging system. Methods of imaging and of writing information on a light-sensitive label are also provided.

IPC 8 full level

B23K 26/18 (2006.01); **B41C 1/05** (2006.01); **B41J 2/45** (2006.01); **G02B 17/06** (2006.01)

CPC (source: EP US)

B41J 2/451 (2013.01 - EP); **B41J 3/4073** (2013.01 - EP US); **B41J 3/4075** (2013.01 - EP); **G02B 17/0636** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2010141017 A2 20101209; WO 2010141017 A3 20110303; CA 2763470 A1 20101209; CA 2763470 C 20161129; CN 102458753 A 20120516; CN 102458753 B 20150617; EP 2437912 A2 20120411; EP 2437912 A4 20150429; IL 216366 A0 20120131; IL 216366 A 20160630; JP 2012528748 A 20121115; MX 2011012907 A 20120420; NZ 597369 A 20140430; ZA 201107465 B 20120627

DOCDB simple family (application)

US 2009046184 W 20090603; CA 2763470 A 20090603; CN 200980159658 A 20090603; EP 09845633 A 20090603; IL 21636611 A 20111114; JP 2012513917 A 20090603; MX 2011012907 A 20090603; NZ 59736909 A 20090603; ZA 201107465 A 20111012