

Title (en)

Device for tempering a laser module in a printing plate exposure unit

Title (de)

Vorrichtung zur Temperierung eines Lasermoduls in einen Druckplattenbelichter

Title (fr)

Dispositif destiné à tempérer un module laser dans un développeur de plaque d'impression

Publication

EP 1750334 A1 20070207 (DE)

Application

EP 06116601 A 20060705

Priority

DE 102005036099 A 20050801

Abstract (en)

A temperature of a laser module (4) having at least one laser diode for imaging a printing form in an exposer and a Peltier element (14) is controlled by cooling the laser module by leading heat from the laser module to the Peltier element through a heat conduit. The laser module is cooled and heated by leading the heat from and/or to the laser module through the heat conduit and/or Peltier element. An independent claim is also included for an apparatus for controlling a temperature of a laser module.

IPC 8 full level

H01S 5/024 (2006.01); **B41J 2/45** (2006.01); **B41J 2/455** (2006.01); **G02B 7/00** (2021.01)

CPC (source: EP US)

B41J 2/45 (2013.01 - EP US); **B41J 2/455** (2013.01 - EP US); **B41J 2/473** (2013.01 - EP US); **B41J 29/377** (2013.01 - EP US)

Citation (applicant)

EP 1398655 A1 20040317 - AGFA GEVAERT AG [DE]

Citation (search report)

- [XY] US 2004075733 A1 20040422 - NEBOSIS RAINER [DE]
- [Y] US 4901324 A 19900213 - MARTIN DANNY W [US]
- [Y] US 4819011 A 19890404 - YOKOTA YUJI [JP]

Cited by

FR2955801A1; US9823569B2; US8955948B2; WO2013114131A1; WO2011092321A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1750334 A1 20070207; **EP 1750334 B1 20100414**; AT E464684 T1 20100415; CN 101770179 A 20100707; CN 101770179 B 20121010; CN 1908817 A 20070207; DE 102005036099 A1 20070208; DE 502006006674 D1 20100527; EP 2228876 A1 20100915; JP 2007043163 A 20070215; US 2007025402 A1 20070201

DOCDB simple family (application)

EP 06116601 A 20060705; AT 06116601 T 20060705; CN 200610108204 A 20060801; CN 201010002503 A 20060801; DE 102005036099 A 20050801; DE 502006006674 T 20060705; EP 10151333 A 20060705; JP 2006208579 A 20060731; US 49513706 A 20060728