Title (en)
Device and method for optical examination of valuable documents

Title (de)
Vorrichtung und Verfahren zur optischen Untersuchung von Wertdokumenten

Title (fr)
Dispositif et procédé destinés à l'examen optique de documents de valeur

Publication
EP 2490185 A3 20121031 (DE)

Application
EP 12001199 A 20070926

Priority
• DE 102006045626 A 20060927
• EP 07818466 A 20070926
• EP 2007008383 W 20070926

Abstract (en)
[origin: US2010060880A1] An apparatus for optical analysis of at least one value document (12) in a recording area (38) of the apparatus has an illumination device (36) for illuminating the value document (12) in the recording area (38) and possessing at least one surface emitting laser diode (50), a control device (42) for driving the laser diode (50), and a detection device (40) for recording optical radiation from the recording area (38).

IPC 8 full level
G07D 7/12 (2006.01)

CPC (source: EP US)
G07D 7/121 (2013.01 - EP US); **G07D 7/20** (2013.01 - EP US)

Citation (search report)
• [XYI] DE 102004014541 B3 20050504 - KOENIG & BAUER AG [DE]
• [I] US 2005217969 A1 20051006 - COOMBS PAUL G [US], et al
• [I] DE 102004035494 A1 20060209 - GIESECKE & DEVRIENT GMBH [DE]
• [AP] WO 2007000045 A1 20070104 - CRANE CANADA CO [CA], et al
• [I] DE 10314101 A1 20041014 - OSE CHRISTIAN [DE]
• [A] US 2002105654 A1 20020808 - GOLTSOS WILLIAM [US]
• [A] US 5031187 A 19910709 - ORENSTEIN MEIR [US], et al
• [Y] EP 1501162 A2 20050126 - XEROX CORP [US]
• [A] JP 2003182149 A 20030703 - FUJI XEROX CO LTD

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
US 2010060880 A1 20100311; **US 8115910 B2 20120214**; AU 2007302243 A1 20080403; AU 2007302243 B2 20130905;
CA 2664416 A1 20080403; CA 2664416 C 20150623; CN 101542543 A 20090923; CN 101542543 B 20150318; DE 102006045626 A1 20080403;
EP 2070058 A1 20090617; EP 2490185 A2 20120822; EP 2490185 A3 20121031; EP 2490185 B1 20220420; ES 2913454 T3 20220602;
HK 1136378 A1 20100625; IL 197848 A0 20091224; IL 197848 A 20141130; RU 2009115781 A 20101110; RU 2421817 C2 20110620;
TW 200836132 A 20080901; TW I365425 B 20120601; UA 94767 C2 20110610; WO 2008037457 A1 20080403

DOCDB simple family (application)
US 44312507 A 20070926; AU 2007302243 A 20070926; CA 2664416 A 20070926; CN 200780043576 A 20070926;
DE 102006045626 A 20060927; EP 07818466 A 20070926; EP 12001199 A 20070926; EP 2007008383 W 20070926; ES 12001199 T 20070926;
HK 10102836 A 20100318; IL 19784809 A 20090326; RU 2009115781 A 20070926; TW 96135960 A 20070927; UA A200903665 A 20070926