

Title (en)
EXPOSURE METHOD, METHOD FOR FORMING PROJECTING AND RECESSED PATTERN, AND METHOD FOR MANUFACTURING OPTICAL ELEMENT

Title (de)
BELICHTUNGSVERFAHREN, VERFAHREN ZUR BILDUNG EINER PROJEKTION UND AUSGESPARTEN STRUKTUR UND VERFAHREN ZUR HERSTELLUNG EINES OPTISCHEN ELEMENTS

Title (fr)
PROCEDE D'EXPOSITION, PROCEDE DE FORMATION D'UN MOTIF A RENFORCEMENTS ET SAILLIES ET PROCEDE POUR FABRIQUER UN ELEMENT OPTIQUE

Publication
EP 1842100 A4 20090429 (EN)

Application
EP 06701442 A 20060124

Priority
• JP 2006301381 W 20060124
• JP 2005015799 A 20050124

Abstract (en)
[origin: WO2006078073A1] An exposure pattern having a line width of submicron size is simply formed by using an inexpensive and stable solid state laser or a gas laser as an exposure light source, and by using a photoresist for g-line or i-line. The exposure is performed by locally controlling a reaction time constant of the photosensitive material with beaming the laser beam on a predetermined portion of a layer of the photosensitive material having a predetermined thickness formed on the surface of a substrate W, with beam intensity and scanning rate of the laser beam being controlled.

IPC 8 full level
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CPC (source: EP KR)
G03F 7/0002 (2013.01 - KR); **G03F 7/70383** (2013.01 - EP KR); **G03F 7/704** (2013.01 - EP KR); **G03F 7/70558** (2013.01 - EP KR)

Citation (search report)
• [XY] EP 0937535 A1 19990825 - RICOH MICROELECTRONICS CO LTD [JP]
• [DYA] JP 2004155083 A 20040603 - DAINIPPON PRINTING CO LTD
• [DXA] US 2001050312 A1 20011213 - KOIDE JUN [JP]
• [XA] JP H0410614 A 19920114 - NTN TOYO BEARING CO LTD
• [XA] EP 1020769 A2 20000719 - SVG LITHOGRAPHY SYSTEMS INC [US]
• [A] US 2003071016 A1 20030417 - SHIH WU-SHENG [US], et al
• See references of WO 2006078073A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
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