

Title (en)

AN ILLUMINATION SOURCE AND ASSOCIATED METROLOGY APPARATUS

Title (de)

BELEUCHTUNGSQUELLE UND ZUGEHÖRIGE MESSVORRICHTUNG

Title (fr)

SOURCE D'ÉCLAIRAGE ET APPAREIL DE MÉTROLOGIE ASSOCIÉ

Publication

EP 3962241 A1 20220302 (EN)

Application

EP 20192841 A 20200826

Priority

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Abstract (en)

Disclosed is an illumination source comprising a gas delivery system being configured to provide a gas target for generating an emitted radiation at an interaction region of the gas target, and an interferometer for illuminating at least part of the gas target with an interferometer radiation to measure a property of the gas target.

IPC 8 full level

H05G 2/00 (2006.01)

CPC (source: EP)

H05G 2/003 (2013.01); **H05G 2/008** (2013.01)

Citation (applicant)

- US 2006066855 A1 20060330 - BOEF ARIE J M [NL], et al
- US 201102753 A1 20110505 - VAN DE KERKHOF MARCUS ADRIANUS [NL], et al
- US 2012044470 A1 20120223 - SMILDE HENDRIK JAN HIDDE [NL], et al
- US 6952253 B2 20051004 - LOF JOERI [NL], et al
- US 2010328655 A1 20101230 - DEN BOEF ARIE JEFFREY [NL]
- US 2011249244 A1 20111013 - LEEWIS CHRISTIAN MARINUS [NL], et al
- US 2011026032 A1 20110203 - DEN BOEF ARIE JEFFREY [NL], et al
- EP 1628164 A2 20060222 - ASML NETHERLANDS BV [NL]
- US 45159908 A 20080220
- US 70867810 A 20100219
- US 25678008 A 20081023
- US 48644909 A 20090617
- US 92096809 A 20090320
- US 92258709 A 20090324
- US 200913000229 A 20090514
- US 201113033135 A 20110223
- US 201213533110 A 20120626
- US 201313891410 A 20130510
- WO 2011012624 A1 20110203 - ASML NETHERLANDS BV [NL], et al
- US 2016161863 A1 20160609 - DEN BOEF ARIE JEFFREY [NL], et al
- US 2016370717 A1 20161222 - DEN BOEF ARIE JEFFREY [NL], et al
- US 2007224518 A1 20070927 - YOKHIN BORIS [IL], et al
- US 2013304424 A1 20131114 - BAKEMAN MICHAEL S [US], et al
- US 2014019097 A1 20140116 - BAKEMAN MICHAEL S [US], et al
- US 2017184981 A1 20170629 - QUINTANILHA RICHARD [NL], et al
- US 2016282282 A1 20160929 - QUINTANILHA RICHARD [NL], et al
- CN 101515105 A 20090826 - UNIV SHANGHAI JIAOTONG [CN]
- NL 2024462 A 20200109 - ASML NETHERLANDS BV [NL]
- WO 2019219336 A1 20191121 - ASML NETHERLANDS BV [NL]
- WO 2020038648 A1 20200227 - ASML NETHERLANDS BV [NL]
- LEMAILLET ET AL.: "Intercomparison between optical and X-ray scatterometry measurements of FinFET structures", PROC. OF SPIE, 2013, pages 8681, XP055267051, DOI: 10.1117/12.2011144
- TAKEDA: "Fourier-transform method of fringe-pattern analysis for computer-based topography and interferometry", J.OPT.SOC.AM., vol. 72, no. 1, 1982, pages 156, XP000570893, DOI: 10.1364/JOSA.72.000156

Citation (search report)

- [A] US 2013119232 A1 20130516 - MORIYA MASATO [JP], et al
- [A] US 2008237498 A1 20081002 - MACFARLANE JOSEPH J [US]
- [XA] FIEDOROWICZ H ET AL: "X-RAY LASER EXPERIMENTS USING LASER-IRRADIATED GAS PUFF TARGETS AT THE ASTERIX IV FACILITY", PROCEEDINGS OF SPIE, IEEE, US, vol. 2520, 10 July 1995 (1995-07-10), pages 55 - 68, XP001036519, ISBN: 978-1-62841-730-2, DOI: 10.1117/12.221659

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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