

Title (en)

MULTI-ANALYZER ANGLE SPECTROSCOPIC ELLIPSOMETRY

Title (de)

WINKELSPEKTROSKOPELLIPSOMETRIE FÜR MEHRERE ANALYSEGERÄTE

Title (fr)

ELLIPSOMÉTRIE SPECTROSCOPIQUE À MULTIPLES ANGLES D'ANALYSEUR

Publication

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Application

EP 12807285 A 20120703

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Abstract (en)

[origin: WO2013006637A1] Ellipsometry systems and ellipsometry data collection methods with improved stabilities are disclosed. In accordance with the present disclosure, multiple predetermined, discrete analyzer angles are utilized to collect ellipsometry data for a single measurement, and data regression is performed based on the ellipsometry data collected at these predetermined, discrete analyzer angles. Utilizing multiple discrete analyzer angles for a single measurement improves the stability of the ellipsometry system.

IPC 8 full level

G01J 4/00 (2006.01); **G01N 21/21** (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] US 5581350 A 19961203 - CHEN XING [US], et al
- [Y] WO 2010049652 A9 20100819 - HORIBA JOBIN YVON SAS [FR], et al
- [Y] US 5333052 A 19940726 - FINAROV MOSHE [IL]
- [A] US 7075650 B1 20060711 - JOHS BLAINE D [US], et al
- [XY] FERRIEU F: "INFRARED SPECTROSCOPIC ELLIPSOMETRY USING A FOURIER TRANSFORM INFRARED SPECTROMETER:SOME APPLICATIONS IN THIN-FILM CHARACTERIZATION", REVIEW OF SCIENTIFIC INSTRUMENTS, AIP, MELVILLE, NY, US, vol. 60, no. 10, 1 October 1989 (1989-10-01), pages 3212 - 3216, XP000071708, ISSN: 0034-6748, DOI: 10.1063/1.1140554
- See references of WO 2013006637A1

Designated contracting state (EPC)

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