

US 20020027661A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2002/0027661 A1 Arieli et al. (43) Pub. Date: Mar. 7, 2002

(54) SPATIAL AND SPECTRAL WAVEFRONT ANALYSIS AND MEASUREMENT

(75) Inventors: Yoel Arieli, Jerusalem (IL); Shay
Wolfling, Tel Aviv (IL); Eyal Shekel,
Jerusalem (IL)

Correspondence Address: Ladas & Parry 26 West 61st Street New York, NY 10023 (US)

(73) Assignee: NANO-OR TECHNOLOGIES INC.

(21) Appl. No.: 09/829,435

(22) Filed: Apr. 9, 2001

Related U.S. Application Data

(63) Non-provisional of provisional application No. 60/196,862, filed on Apr. 12, 2000.

Publication Classification

(51)	Int. Cl. ⁷	 G01B	11/02
(52)	U.S. Cl.	35	6/512

(57) ABSTRACT

A method and apparatus for wavefront analysis including obtaining a plurality of differently phase changed transformed wavefronts corresponding to a wavefront being analyzed which has an amplitude and a phase, obtaining a plurality of intensity maps of the plurality of phase changed transformed wavefronts and employing the plurality of intensity maps to obtain an output indicating the amplitude and phase of the wavefront being analyzed.

