

US007145710B2

(12) United States Patent Holmes

(10) Patent No.: US 7,145,710 B2 (45) Date of Patent: Dec. 5, 2006

(54) OPTICAL PROCESSING

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 122 days.

(21) Appl. No.: 10/487,810

(22) PCT Filed: Sep. 2, 2002

(86) PCT No.: PCT/GB02/04011

§ 371 (c)(1),

(2), (4) Date: Sep. 10, 2004

(87) PCT Pub. No.: WO03/021341

PCT Pub. Date: Mar. 13, 2003

(65) Prior Publication Data

US 2005/0018259 A1 Jan. 27, 2005

(30) Foreign Application Priority Data

Sep. 3, 2001 (GB) 0121308.1

(51) **Int. Cl.**

G02F 1/01 (2006.01) G02F 1/29 (2006.01)

G03H 1/12 (2006.01) G02B 6/26 (2006.01) B23K 26/06 (2006.01)

219/121.73; 219/121.75

See application file for complete search history.

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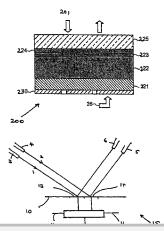
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(57) ABSTRACT

To operate an optical device comprising an SLM with a two-dimensional array of controllable phase-modulating elements groups of individual phase-modulating elements are delineated, and control data selected from a store for each delineated group of phase-modulating elements. The selected control data are used to generate holograms at each group and one or both of the delineation of the groups and the selection of control data is/are varied. In this way upon illumination of the groups by light beams, light beams emergent from the groups are controllable independently of each other.

14 Claims, 36 Drawing Sheets





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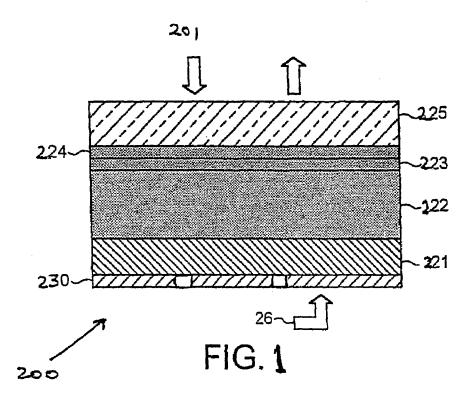
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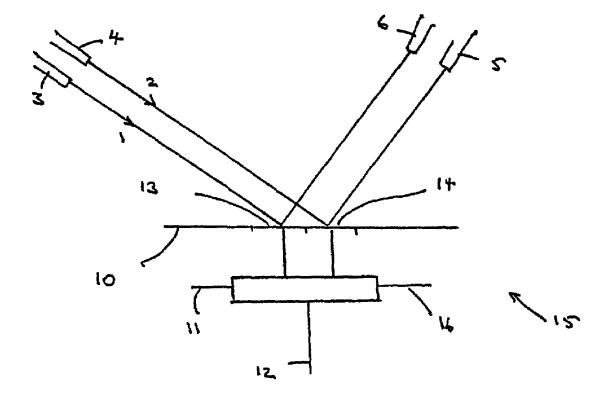
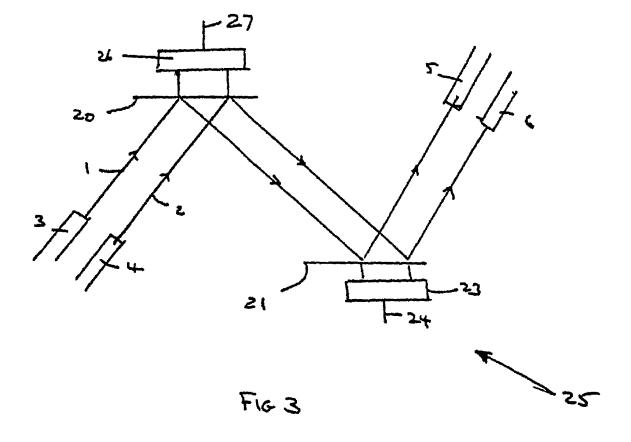


Fig 2



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