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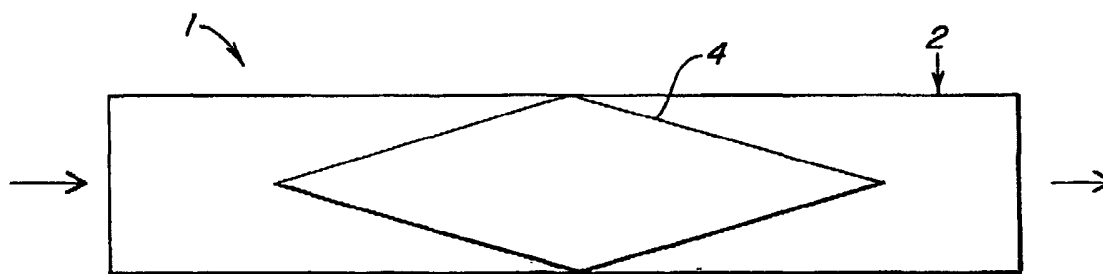
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(54) Title: LIGHT MODULATION USING THE FRANZ-KELDYSH EFFECT



Top View

(57) Abstract: An optical modulator (1) includes at least one waveguide medium (4) that receives light. An absorption medium absorbs the light under predefined conditions and outputs optically modulated light. The absorption medium is comprised of a Ge-based structure. The Ge-based structure uses the Franz-Keldysh effect to create said optically modulated light.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02F1/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 221 053 A (GEN ELECTRIC CO PLC) 24 January 1990 (1990-01-24) claim 2; figure 2 ---	1,18
A	US 5 165 105 A (HAASE MICHAEL A ET AL) 17 November 1992 (1992-11-17) claim 1; figure 1 -----	1,18



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT
 information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5165105	A	17-11-1992	EP 0596898 A1	18-05-1994
			JP 6509428 T	20-10-1994
			WO 9303411 A1	18-02-1993