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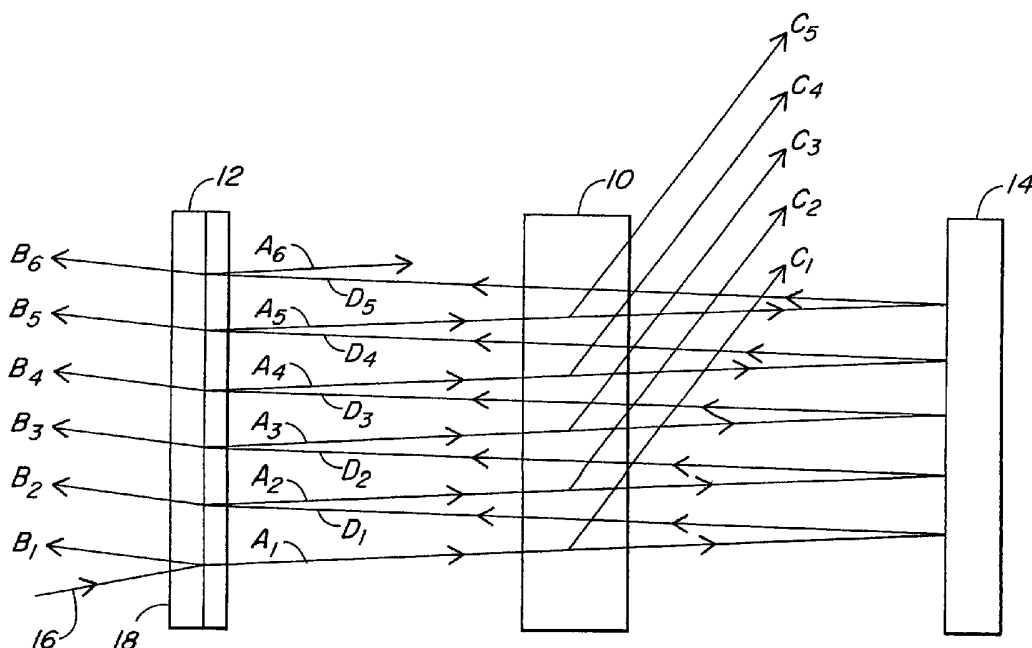
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(54) Title: SYSTEM AND METHOD FOR INCREASING THE DIFFRACTION EFFICIENCY OF HOLOGRAMS



(57) Abstract: A resonator system is disclosed for use in illuminating an input to a diffractive element (10). The system includes a source of an electromagnetic field having a wavelength of λ , and first (12) and second optical elements (14), each of which is at least partially reflecting. The first and second optical elements are separated from one another such that the optical path between the optical elements has a distance $(2m + 1)\lambda/4$, wherein m is an integer.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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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 G03H

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)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 21 43 829 A (SIEMENS AG) 8 March 1973 (1973-03-08) page 5, paragraph 3 - paragraph 4 claims 1,3; figure ---	1-3,10, 11, 14-16, 19,20
A	US 3 763 441 A (ROESS D) 2 October 1973 (1973-10-02) column 2, line 15 - line 35 column 2, line 63 - line 68 figure --- -/--	1-3,10, 11, 14-16, 19,20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 752 130 A (GEORGE NICHOLAS ET AL) 21 June 1988 (1988-06-21) claims 1,2	1-3, 10, 11, 14-16, 19

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