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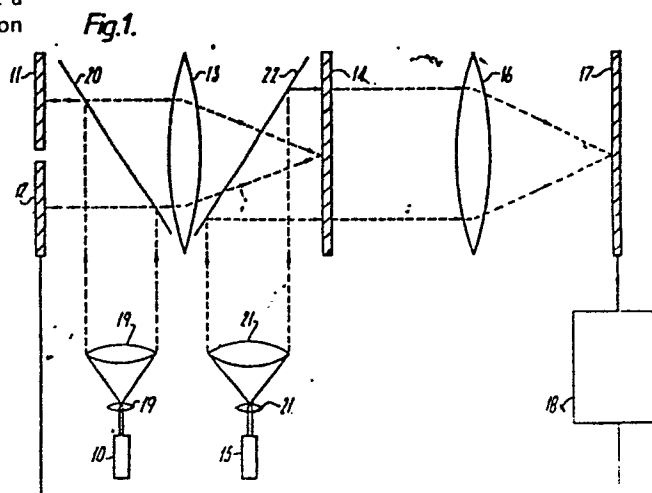
(71) Applicant: **STC PLC**
10, Maltravers Street
London, WC2R 3HA(GB)

(72) Inventor: **Collings, Neil**
36 Brentnall Towers Potter Street
Harlow Essex CM17 9AL(GB)

(74) Representative: **Laurence, Simon French et al,**
STC Patent Department Edinburgh Way
Harlow Essex CM20 2SH(GB)

(54) **Optical correlator.**

(57) A joint transform correlator in which a servo-feedback system (18) is included which employs the correlation signal output to electronically modify the representation of the 'archetype' in the reference scene portrayed in one of the spatial light modulators (12) of the correlator to make it a closer match to any 'quarry' discovered in the investigation scene portrayed in the other spatial light modulator (11).





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	EP-A-0 058 592 (THOMSON) * Figure 3; page 5, line 8 - page 8, line 6 *	1	G 06 G 9/00 G 02 F 1/35 G 03 H 1/16
A	--- PATENT ABSTRACTS OF JAPAN, vol. 6, no. 241 (P-158)[1119], 30th November 1982; & JP-A-57 138 616 (MITSUBISHI DENKI K.K.) 27-08-1982	1	
A	--- US-A-3 747 103 (GAMERTSFELDER et al.) * Column 1, lines 59-65; column 4, lines 8-11; column 5, lines 15-17, 22-27; column 8, lines 22-28, 46-52; column 10, line 62 - column 11, line 22 *	1	
A	--- PROCEEDINGS OF THE IEEE, vol. 65, no. 1, January 1977, pages 77-84, New York, US; D. CASASENT et al.: "New optical transforms for pattern recognition" * Column 2, lines 1-11 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) G 06 G 9 G 01 S 3 G 02 F 1 G 06 K 9
A	--- J.W. GOODMAN: "Introduction to fourier optics", 1968, pages 261-267, McGraw-Hill, New York, US * Page 261, line 18 - page 264, line 4; figures 8-38 *	2	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29-05-1987	Examiner KLEIKAMP B.M.H.H.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, vol. 56, no. 4, April 1966, page 523, New York, US; E.N. LEITH et al.: "Holographic imagery through diffusing media" * Column 1, lines 1-26 * -----	2	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
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