United States Patent [19]

Ando

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5,008,946

[45] Date of Patent:

Apr. 16, 1991

[54]	SYSTEM I	FOR RECOGNIZING IMAGE
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[73]	Assignee:	Aisin Seiki K.K., Tokyo, Japan
[21]	Appl. No.:	242,441
[22]	Filed:	Sep. 9, 1988
[30]	Foreign	n Application Priority Data
Sep. 9, 1987 [JP] Japan 62-225862		
[52]	U.S. Cl Field of Sea	
		94, 195, 3.11, 3.14; 414/901; 180/167, 272, 271
[56]		References Cited
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4	3,638,188 1/1 4,281,734 8/1 4,479,784 10/1 4,625,329 11/1	981 Johnston
OTHER PUBLICATIONS		

Nakasi Honda et al., Multivariate Data Representation

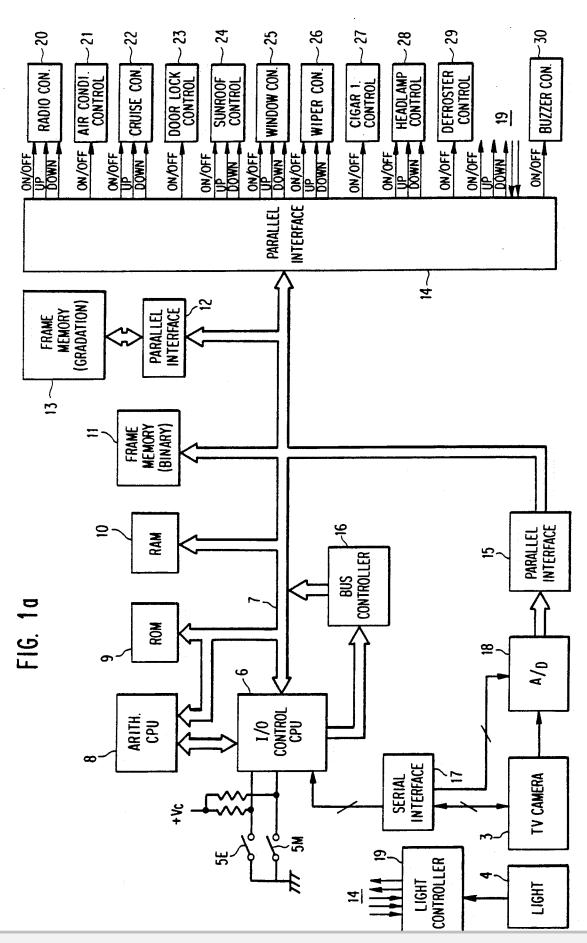
and Analysis by Face Pattern Using Facial Expression Characteristics, 6-1985, 85-93.

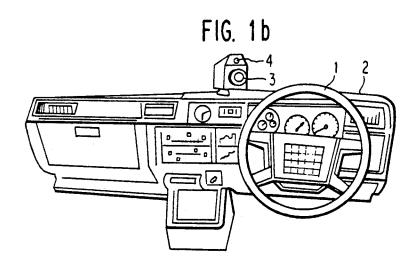
Primary Examiner—Michael Razavi Attorney, Agent, or Firm—Sughrue, Mion, Zinn, Macpeak & Seas

[57] ABSTRACT

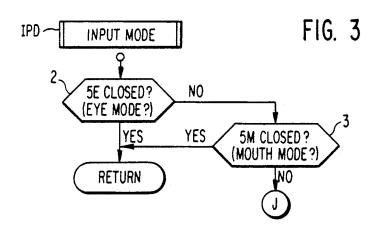
There is disclosed a system which permits an automobile driver to control electrical devices installed on an automobile by moving his or her pupils and mouth intentionally. The system includes a TV camera, a light, a first microprocessor which controls the electrical devices according to the changes in the shape of the driver's mouth, a second microprocessor for performing various arithmetic operations, and memories. Reference values have been previously assigned to various elements of the driver's face and stored in one of the memories. The second microprocessor normalizes the distances between the elements of the face with the distance between the pupils of the eyes and compares the normalized distances with the reference values to calculate the degrees of similarity of the elements.

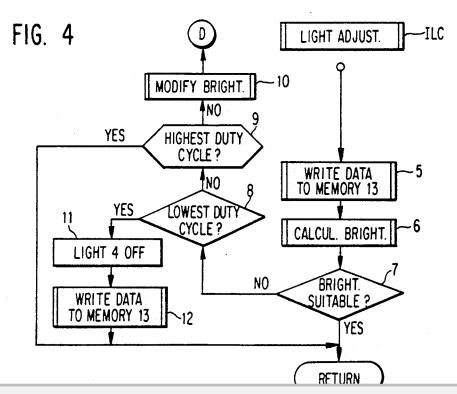
1 Claim, 22 Drawing Sheets





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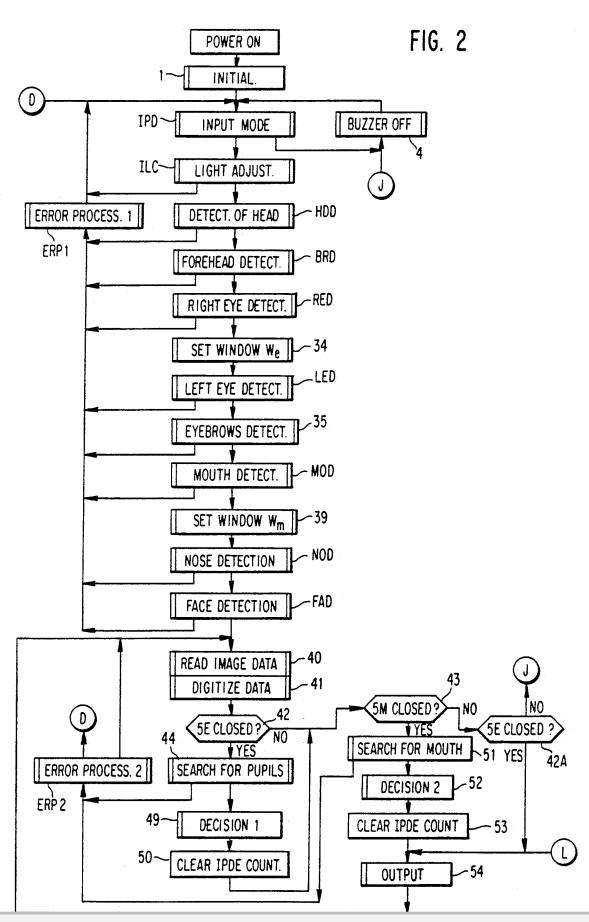




FIG. 5a

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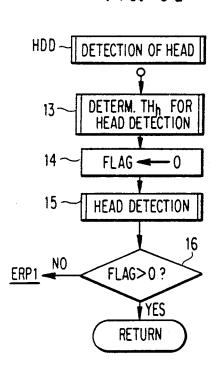
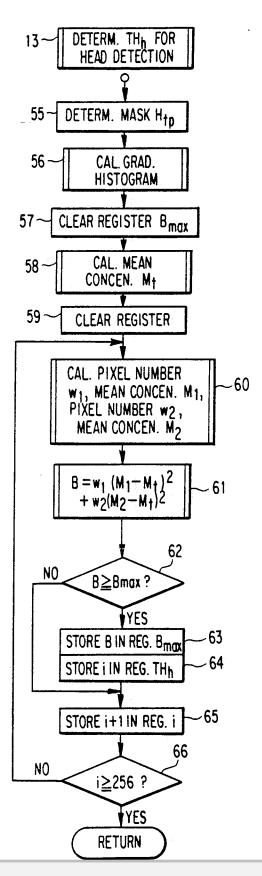


FIG. 5b



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