

FIG. 1

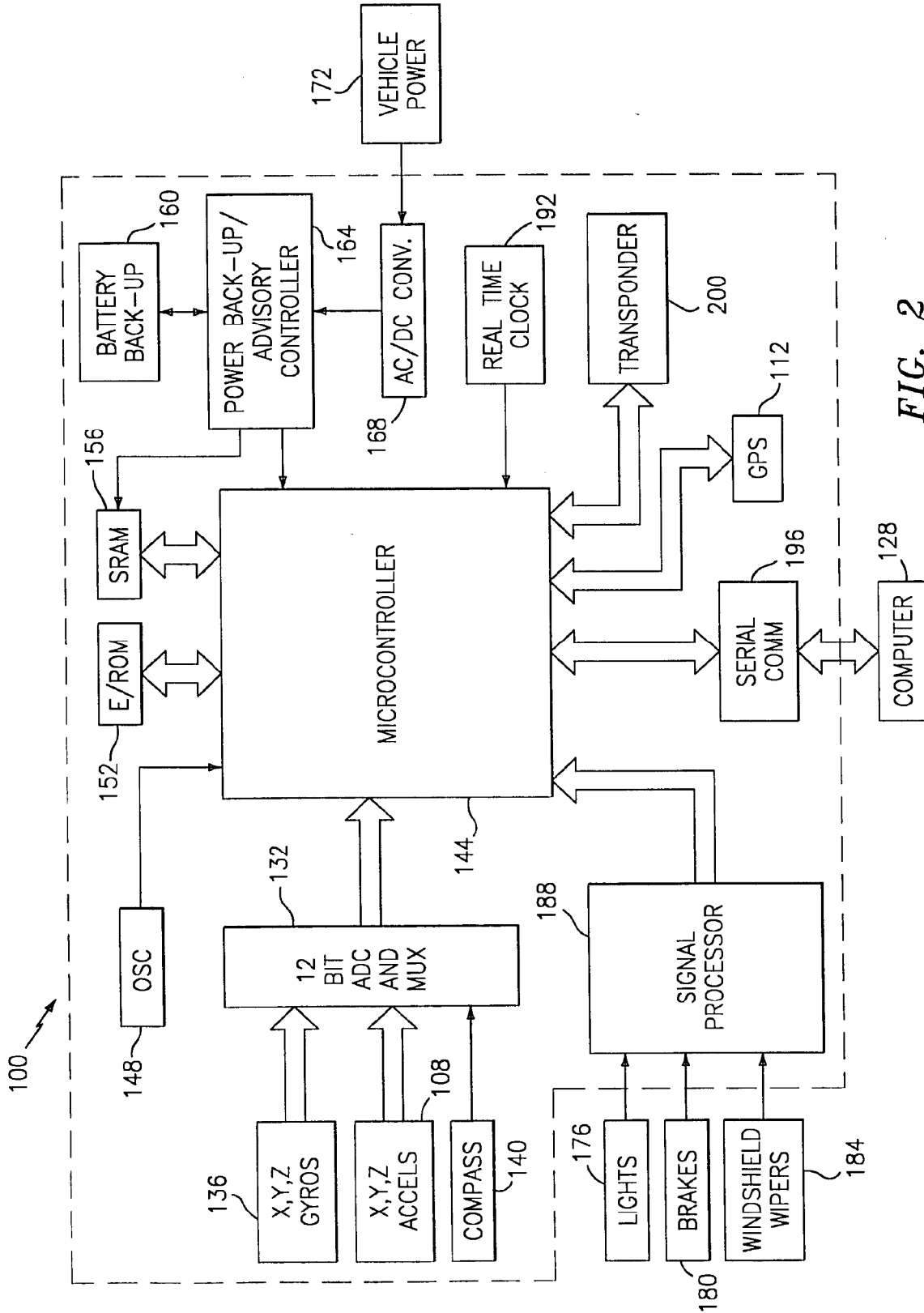


FIG. 2

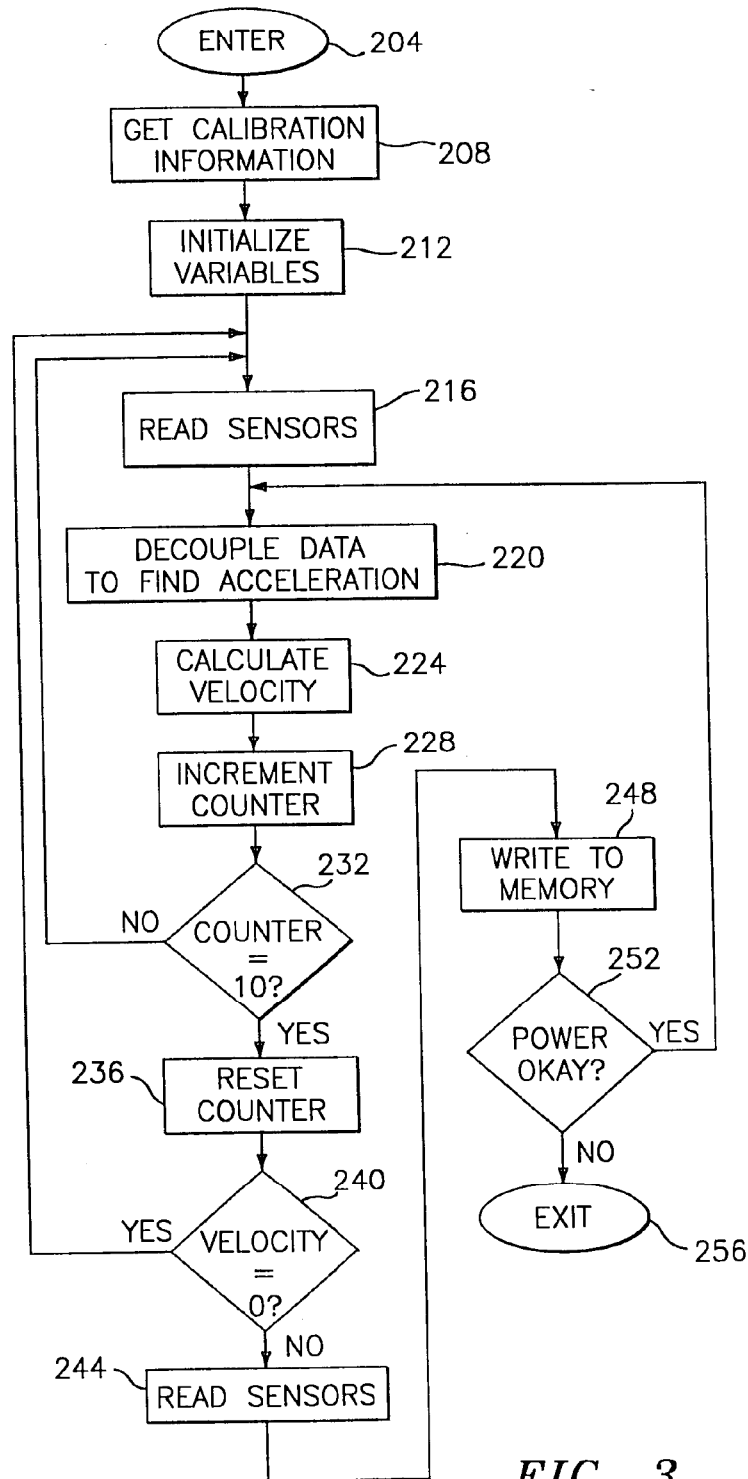


FIG. 3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/07704

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 G07C5/08		
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 6 G07C		
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)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	EP 0 825 568 A (DATA TEC CO LTD) 25 February 1998 see abstract; claims 1-3, 14; figures 1-4, 6 see column 1, line 53 - column 3, line 56 see column 5, line 6 - column 6, line 58 see column 10, line 2 - line 34 see column 11, line 54 - column 12, line 7	1-9, 12, 15, 16, 18
A	---	10, 11, 13, 14, 17, 19, 20
X	EP 0 590 312 A (EATON CORP) 6 April 1994 see abstract; figures 6, 7 see page 2, line 25 - page 3, line 13 see page 5, line 26 - page 7, line 20	1, 2, 6
Y	---	8, 10, 12-20
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :		
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Date of the actual completion of the international search 26 August 1998		Date of mailing of the international search report 03/09/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Buron, E

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/07704

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 06100 A (WAGNER JEAN JACQUES) 17 March 1994 see abstract; figures 2,3C see page 1, line 5 - page 2, line 16 see page 5, line 1 - line 9 see page 8, line 5 - page 13, line 9	1,4,5,7
Y		13,14,20
A		2,3,8,10
X	----- PATENT ABSTRACTS OF JAPAN vol. 012, no. 390 (P-772), 18 October 1988 -& JP 63 132111 A (TOKYO KEIKI CO LTD), 4 June 1988 see abstract; figure	1,3-5,7
A		2,8,20
Y	----- US 5 446 659 A (YAMAWAKI YUICHIRO) 29 August 1995 cited in the application see abstract; claim 1; figures see column 2, line 6 - column 5, line 27 see column 11, line 26 - line 29	8,10,12
Y	----- US 5 353 023 A (MITSUGI TATSUYA) 4 October 1994 see abstract; claims; figures see column 1, line 5 - column 2, line 58 see column 7, line 64 - column 8, line 4	13-19
A		1,10,20
A	----- US 4 638 289 A (ZOTNIK EDMUND) 20 January 1987 cited in the application see abstract; figure 1 see column 3, line 38 - column 4, line 25 see column 5, line 43 - line 59 -----	10,11

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