

United States Patent [19]

Banks

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Date of Patent: [45]

Aug. 18, 1998

[54]	ELECTRONIC DISPLAY SIGN		
[75]	Inventor:	Archie A. Banks, Prince Edward Island, Canada	
[73]	Assignee:	CIE Research, Inc., Prince Edward Island, Canada	

[21] Appl. No.: **422,701**

[22] Filed: Apr. 14, 1995

Related U.S. Application Data

[63]	Continuation of Ser. No. 406,660, Mar. 20, 1995, aban-				
	doned, which is a continuation of Ser. No. 149,714, Nov. 9.				
	1993, abandoned, which is a continuation of Ser. No.				
	809,670, Dec. 18, 1991, abandoned.				

[51]	Int. Cl. ⁶	B41J 2/105 ; B41J 2/01 ;
		B41J 3/00; B41J 29/38
[52]	U.S. CL	345/82 : 345/1: 345/4:

345/903 [58] Field of Search 345/82, 1, 2, 4–6, 345/903; B41J 2/105, 2/01, 3/00, 29/56

[56] References Cited

U.S. PATENT DOCUMENTS

3,811,071	5/1974	Ogle .
4,006,476	2/1977	Rommey .
4,384,279	5/1983	Fujita .
4 445 132	4/1984	Ichikawa et al

4,581,612	4/1986	Jones .
4,745,404	5/1988	Kallenberg .
4,771,278	9/1988	Pooley .
4,825,201	4/1989	Watanabe et al.
4,833,542	5/1989	Hara et al
4,897,651	1/1990	DeMonte .
4,901,155	2/1990	Hara et al
5,079,636	1/1992	Brody .
5,136,695	8/1992	Goldshlag et al

FOREIGN PATENT DOCUMENTS

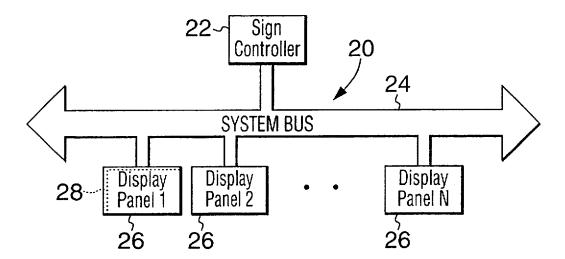
0242742	10/1987	European Pat. Off
0247377	12/1987	European Pat. Off
3513607	10/1986	Germany .

Primary Examiner-Mark R. Powell Assistant Examiner-Vivek Srivastava Attorney, Agent, or Firm-Andrus. Sceales. Starke & Sawall

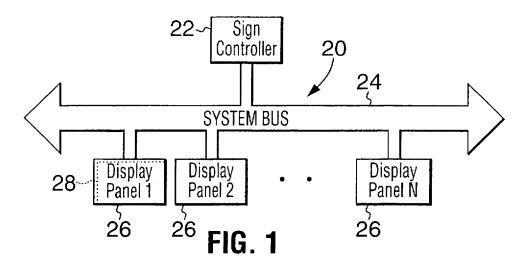
[57] **ABSTRACT**

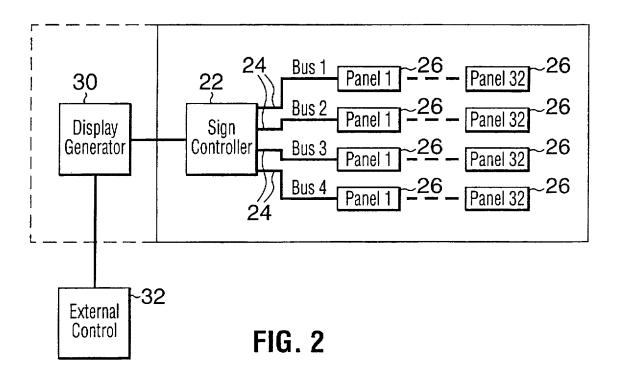
An electronic display sign constructed around a system bus architecture is disclosed. The electronic display sign is preferably a modular construction wherein a number of modules are connected together to form a large display sign which is capable of displaying images at rates which exceed thirty frames a second. Display data is formatted and transmitted to display modules by a sign controller which resides on one of the panels. Each display panel is preferably provided with its own power source.

30 Claims, 7 Drawing Sheets

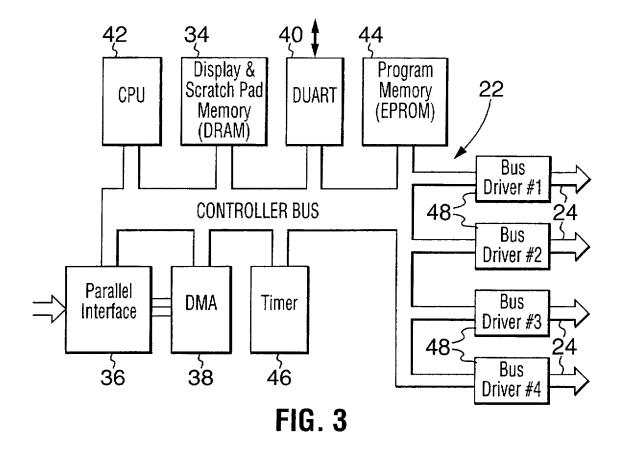












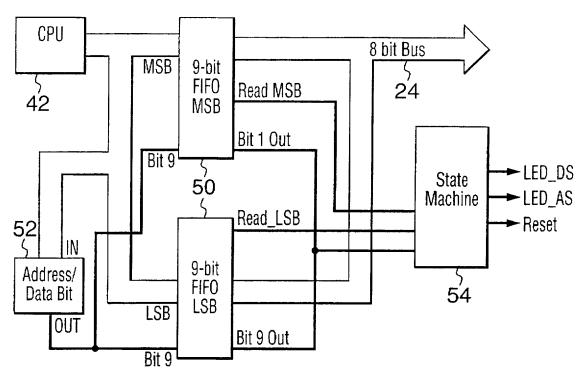
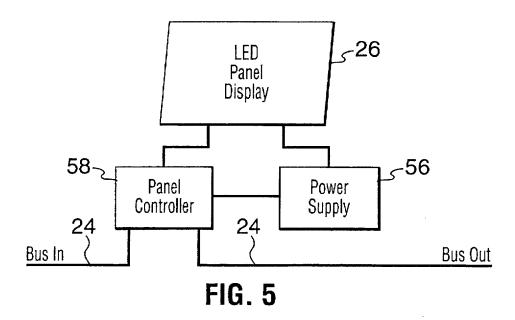
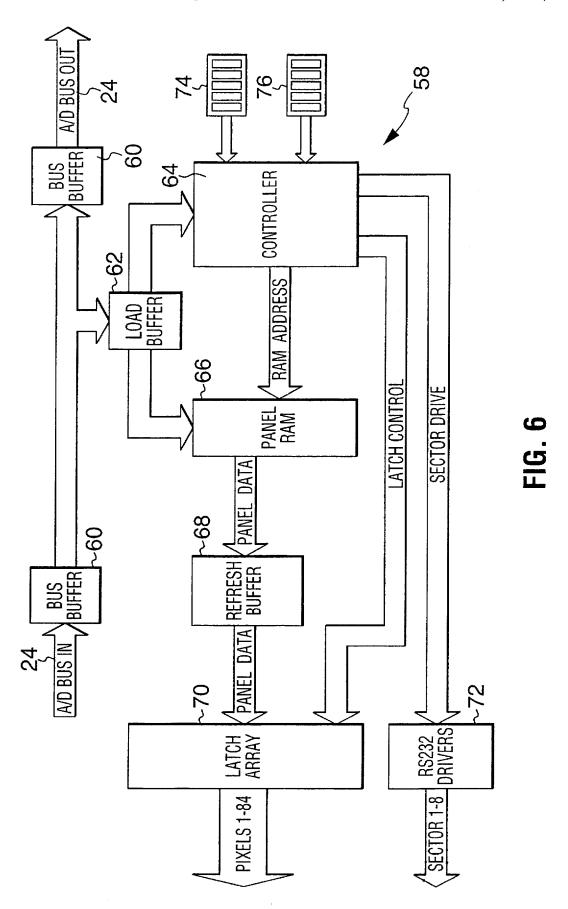


FIG. 4







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