

# United States Patent [19] [11]

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Madsen et al.

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## [54] LIGHT MATRIX DISPLAY SYSTEM

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of Logan; Bill Kersey, Salt Lake City, all of Utah; Brent Madsen,

Providence, all of Utah

[73] Assignee: Intergrated Systems, Logan, Utah

[21] Appl. No.: 506,861

Reissue of

[22] Filed: Apr. 9, 1990

### Related U.S. Patent Documents

14013	Jue O1.	
[64]	Patent No.:	4,820,956
	Issued:	Apr. 11, 1989
	Appl. No.:	104,118
	Filed:	Oct. 2, 1987
[51]	Int. Cl. <sup>5</sup>	<b>G08B 5/36;</b> G09F 9/307;
		H01R 33/00
[52]	U.S. Cl	
	313/51; 31	5/312; 340/780; 439/888; 439/890

[56] References Cited

### **U.S. PATENT DOCUMENTS**

2,992,364	7/1961	Rasmussen 315/184
3,373,419	3/1968	Mathamel 315/84.51 X
		Slobodzian et al. 358/240 X

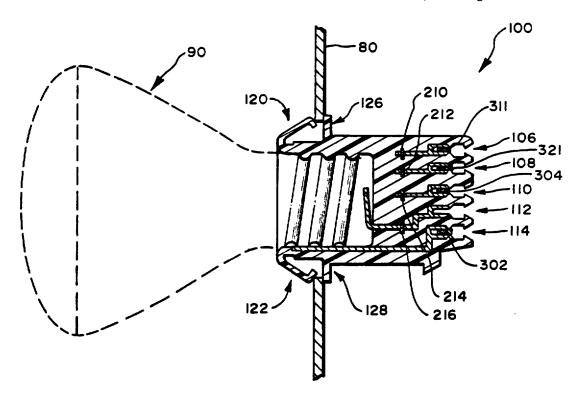
4,134,132	1/1979	Magos et al	358/240
4,234,914	11/1980	Boesen	40/550 X
4,724,629	2/1988	Walton	40/550 X
4,771,278	9/1988	Pooley	340/780

Primary Examiner—Eugene R. LaRoche Attorney, Agent, or Firm—Workman, Nydegger & Jensen

#### [57] ABSTRACT

A light matrix display system and a lamp socket for use therein. The lamp socket receives a single lamp which may be easily replaced by another lamp. The lamp socket is also designed so that it may be readily replaced if necessary. A solid state switching circuit is replaceably mounted on each lamp socket. Thus, if a switching circuit fails, it may be quickly replaced without disturbing the operation of other lamps. The light matrix display system includes a plurality of lamps arranged in rows and columns. A plurality of row control conductors and column control conductors are provided which are connected to a matrix system controller. Hot and neutral AC current supplying conductors and one row control conductor and one column control conductor are directly connected to each lamp socket and the switching circuit associated with the lamp socket. When proper voltages are placed on the row and column control conductors connected to a lamp socket, current flows through the solid state switching circuit, which turns on the corresponding lamp.

## 32 Claims, 5 Drawing Sheets





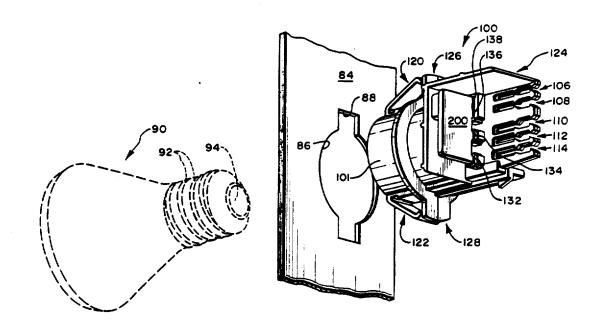
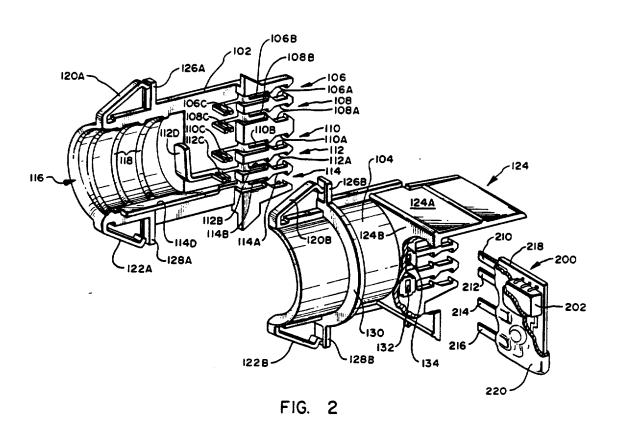


FIG. 1





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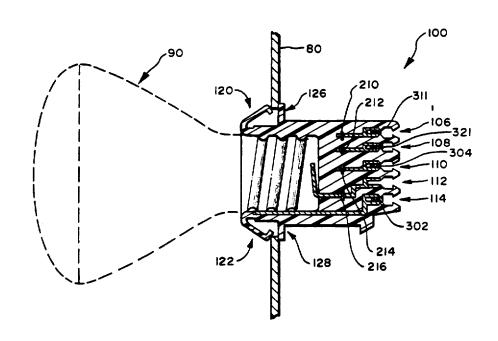


FIG. 3

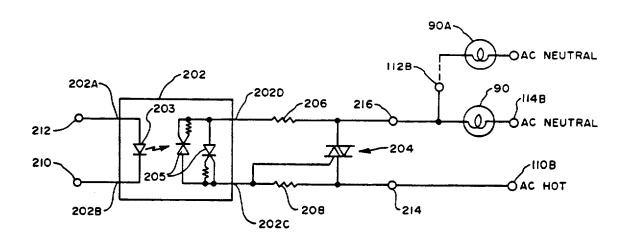
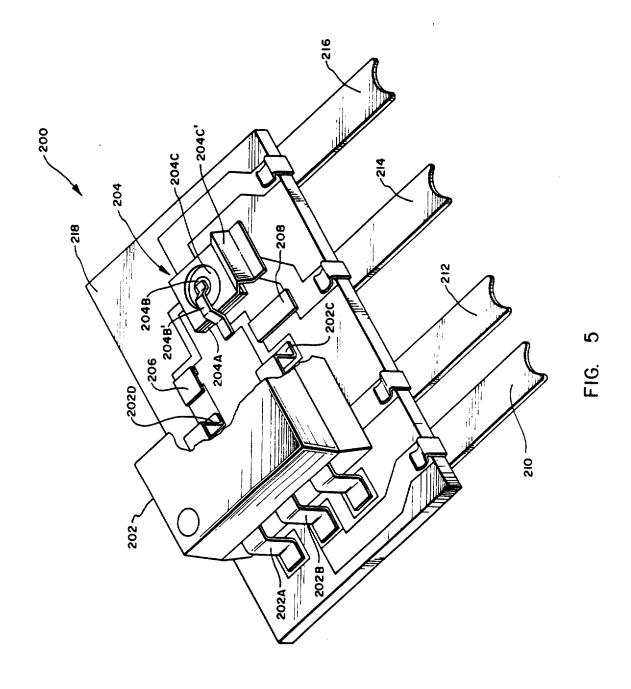
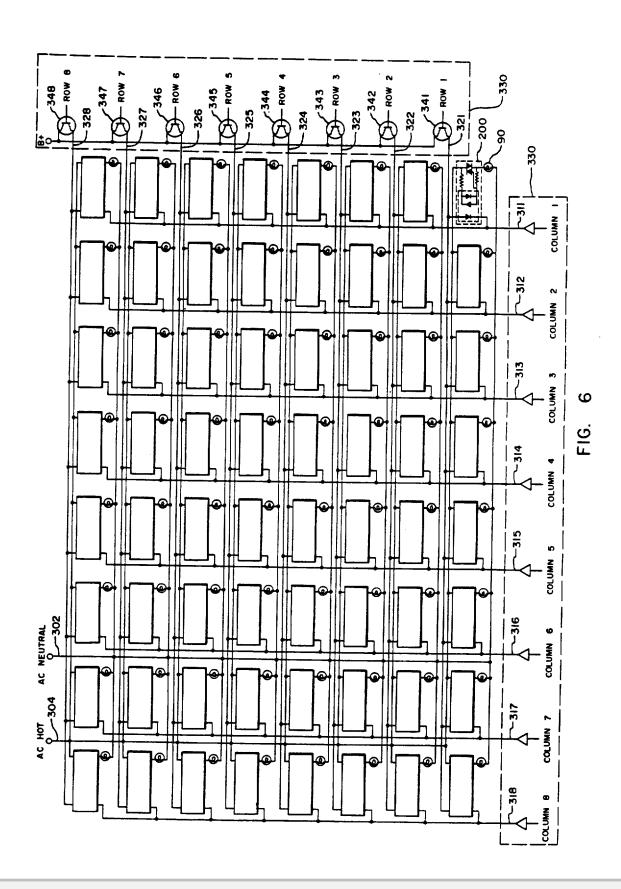


FIG. 4

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