

[54] MULTIMEDIA COMPUTER KEYBOARD

OTHER PUBLICATIONS

[75] Inventors: James L. Copland, Paradise Valley; Gary Crunk; Klaus Muerzl, both of Phoenix, all of Ariz.

Loveria, G., "Making The MPC Upgrade." BYTE, May 1993, pp. 176-190.

[73] Assignee: SC&T International, Inc., Scottsdale, Ariz.

Quinn, J., et al., "Making Noise," PC Magazine, Jan. 11, 1994, p. 125.

[21] Appl. No.: 690,025

Advertisement for Dell Multimedia Computer, copied contemporaneously with Document B.

[22] Filed: Jul. 31, 1996

Advertisement for Lexmark Keyboard, copied contemporaneously with Document B.

Related U.S. Application Data

Advertisement for "Sound Galaxy" multimedia upgrade kit, copied contemporaneously with Document B.

[63] Continuation of Ser. No. 292,571, Aug. 18, 1994, abandoned.

Advertisement for Microsoft Sound System, copied contemporaneously with Document B.

[51] Int. Cl.<sup>6</sup> ..... H04B 1/40

Advertisement for Toshiba T6600C Copied contemporaneously with Document B.

[52] U.S. Cl. .... 345/168; 400/472; 341/22; D14/115; 364/708

Microsoft, 1993, 1 page advertisement, Windows Sound System; Voice recognition device.

[58] Field of Search ..... 345/168, 169; 400/472, 485-490; 341/22; D14/115; 364/708.1

Mouse with Ears, Dec. 1991, No. 332, Research Disclosure.

Primary Examiner—Mark R. Powell

Attorney, Agent, or Firm—O'Connor, Cavanagh; John D. Titus

[56] References Cited

[57] ABSTRACT

U.S. PATENT DOCUMENTS

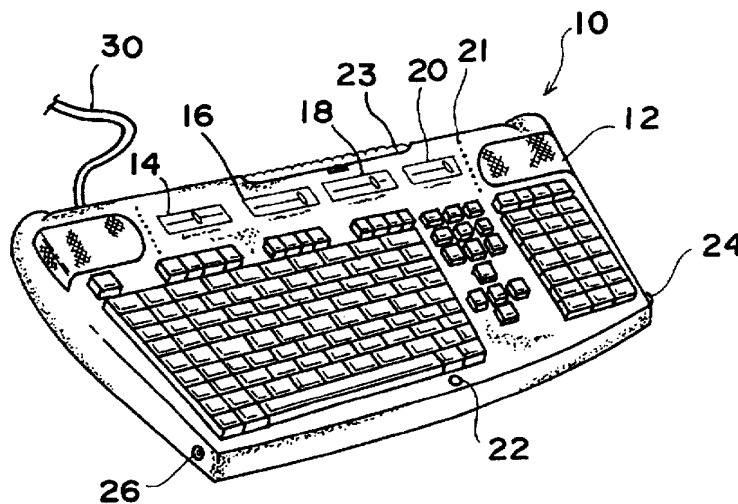
A multimedia computer keyboard that is adaptable to new or existing computer systems. The computer keyboard has built-in full range stereo speakers with a control panel located above the standard alphanumeric and function key pads. The computer keyboard also has external headphone and microphone jacks with interrupt circuitry. The standard alphanumeric and function key pad circuitry and the audio circuitry are maintained as separate circuit components within the multimedia computer keyboard housing. Individual component cables are combined into a single cable that connects the multimedia computer keyboard to the computer CPU terminal. Also, floppy disk drive, CD-ROM disk drive and telecommunications components may be incorporated into said multimedia computer keyboard system.

D. 363,928	11/1995	Martin	.....	D14/115
D. 369,594	5/1996	Vossoughi	.....	D14/115
4,776,016	10/1988	Hansen	.....	381/42
4,896,370	1/1990	Kasparian et al.	.....	455/77
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5,033,804	7/1991	Faris	.....	312/208
5,160,798	11/1992	Morikawa et al.	.....	84/615
5,195,130	3/1993	Weiss et al.	.....	379/98
5,208,745	5/1993	Quentin	.....	364/188
5,245,558	9/1993	Hachey	.....	364/708.1
5,283,638	2/1994	Engberg	.....	348/14
5,283,819	2/1994	Glick	.....	379/90

FOREIGN PATENT DOCUMENTS

119821	5/1989	Japan	.....	
WO9104461	4/1991	WIPO	.....	G01D 15/00

23 Claims, 9 Drawing Sheets



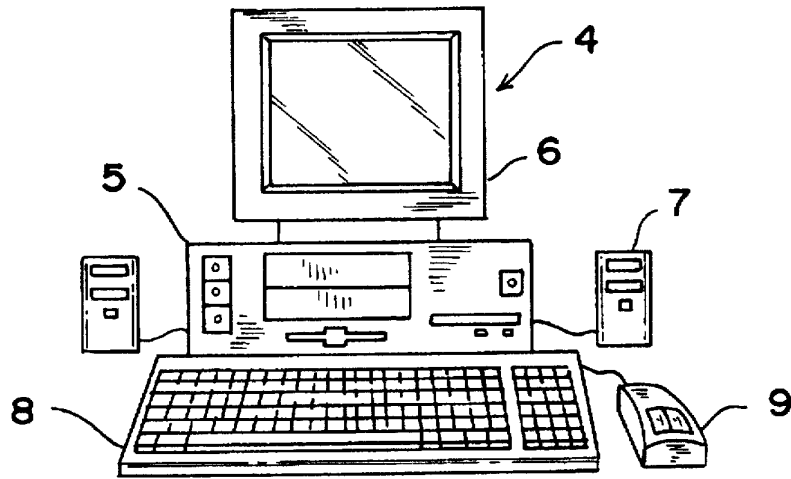


FIG. 1a  
PRIOR ART

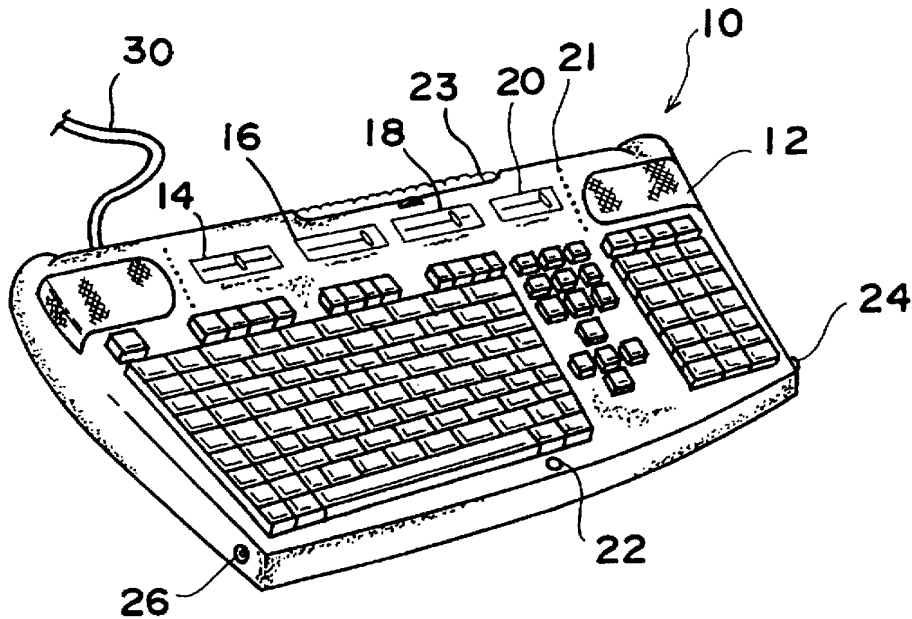
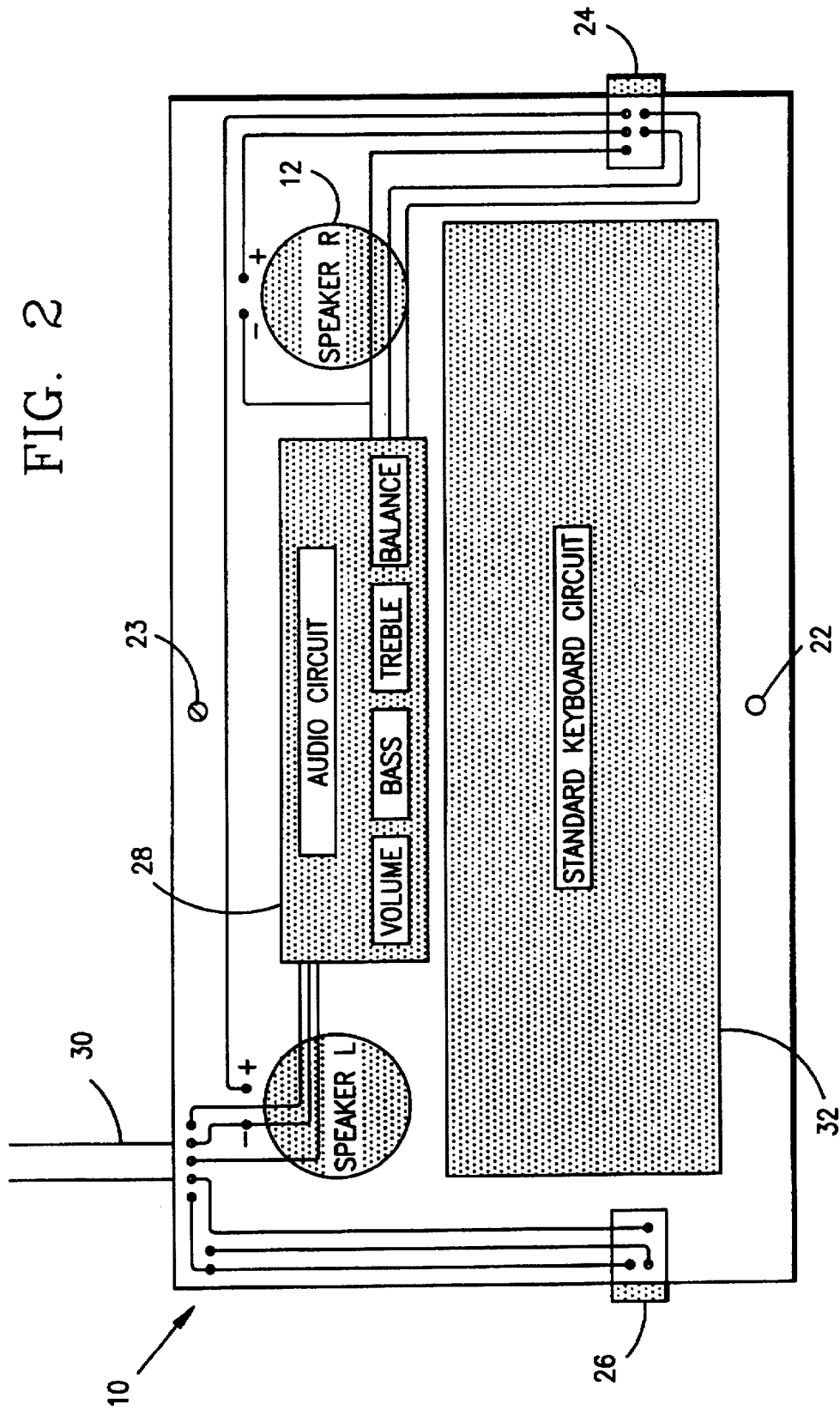


FIG. 1b

FIG. 2



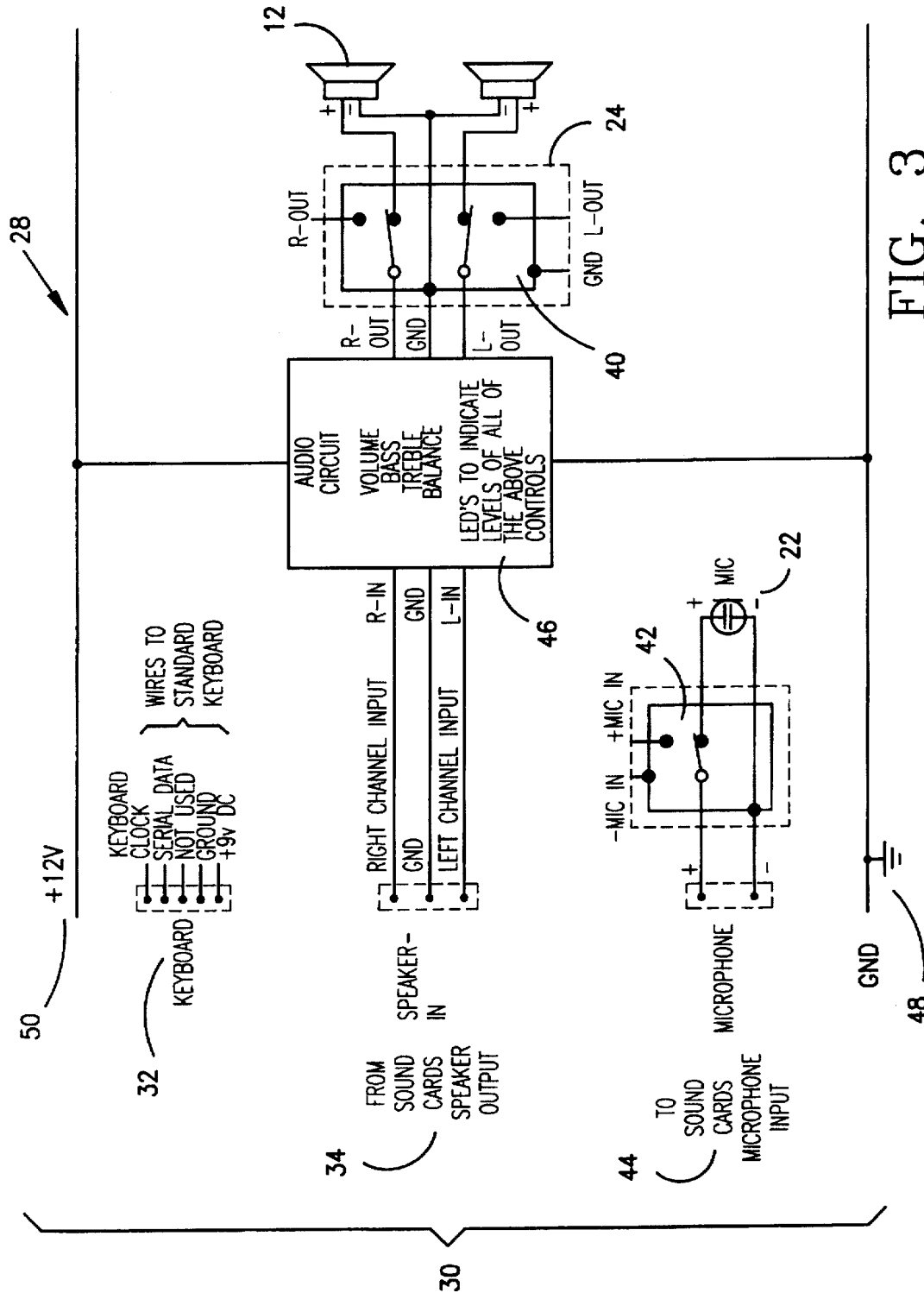


FIG. 3

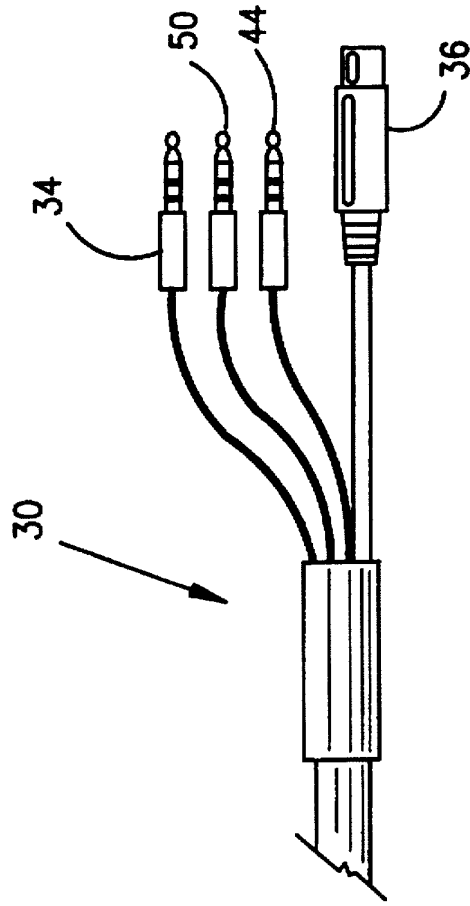


FIG. 4b

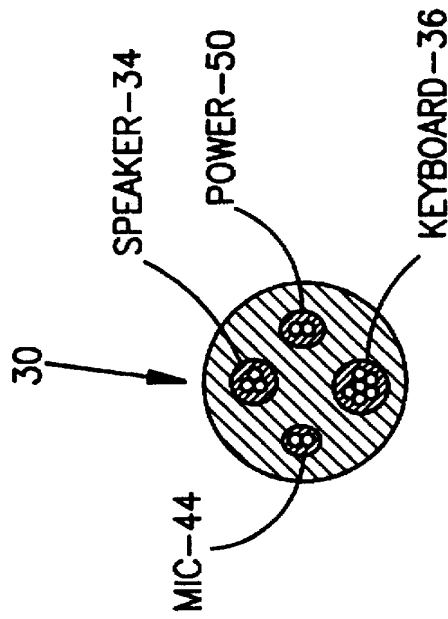


FIG. 4a

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