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# United States Patent [19]

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Grant et al.

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## [54] COMPUTER KEYBOARD

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- [73] Assignee: **Ergonomics, Inc.**, Chevy Chase, Md.
- [\*\*] Term: **14 Years**
- [21] Appl. No.: **22,402**
- [22] Filed: **May 4, 1994**

## OTHER PUBLICATIONS

- IBM Technical Disclosure Bulletin, Mapping the Computer 83-Keyboard to 62-Key Keyboard, vol. 27, No. 4B, Sep. 1984, pp. 2717 and 2718.
- Alan H. Grant, The Computer Syndrome, Journal of the American Optometric Association, vol. 58, No. 11, Nov. 1987.
- Alan H. Grant, Homo Quintadus and Computers, Optometry & Vision Science, vol. 67, No. 4, pp. 297-305, Sep. 1989.
- Popular Science, "What's New", p. 10, Sep. 1990.
- "Studies on Ergonomically Designed Alphanumeric Keyboards", Nakaseko, M., et al. Human Factors, Apr. 1985, pp. 175-187.
- Ergonomische Tastaturgestaltung from Fraunhofer Institut Design for an Ergonomic Keyboard Jan. 5, 1993.

## Related U.S. Application Data

- [63] Continuation of Ser. No. 4,848, Feb. 16, 1993, abandoned.
- [52] U.S. Cl. .... **D14/115**
- [58] Field of Search ..... **D14/100, 101, 106, 115;**  
**D18/1, 7, 11, 12; 235/145 A, 145 R; 345/156,**  
**168; 341/22, 23; 364/708.1, 709.04, 709.12;**  
**400/486, 489**

## References Cited

### U.S. PATENT DOCUMENTS

- D. 268,677 4/1983 Ohie et al. .
- D. 270,347 8/1983 Yomo et al. .
- D. 317,595 6/1991 Yoshitake .
- D. 323,817 2/1992 Büchin .
- D. 338,665 8/1993 Riley et al. .... **D14/115**
- D. 339,800 9/1993 Louis ..... **D14/115**
- D. 341,134 11/1993 Marquardt et al. .... **D14/115**
- 1,138,474 5/1915 Heidner .
- 3,698,532 10/1972 Dodds .
- 3,990,565 11/1976 Felton et al. .
- 4,042,777 8/1977 Bequaert et al. .
- 4,244,659 1/1981 Malt .
- 4,402,624 9/1983 Stahl et al. .
- 4,483,634 11/1984 Frey et al. .
- 4,509,873 4/1985 Ryan .
- 4,522,518 6/1985 Schmidt .
- 4,568,056 2/1986 Lewinski .
- 4,579,470 4/1986 Casey .

(List continued on next page.)

### FOREIGN PATENT DOCUMENTS

- 2607126 8/1977 Germany .
- 0332476 7/1930 United Kingdom .
- 2034043 5/1980 United Kingdom .
- 2122947 1/1984 United Kingdom .

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## [57] CLAIM

The ornamental design for a computer keyboard, as shown and described.

## DESCRIPTION

FIG. 1 is a top plan view showing our new design for a computer keyboard with the broken lines being shown for illustrative purposes only and forming no part of the claimed design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a right-hand side elevational view thereof;

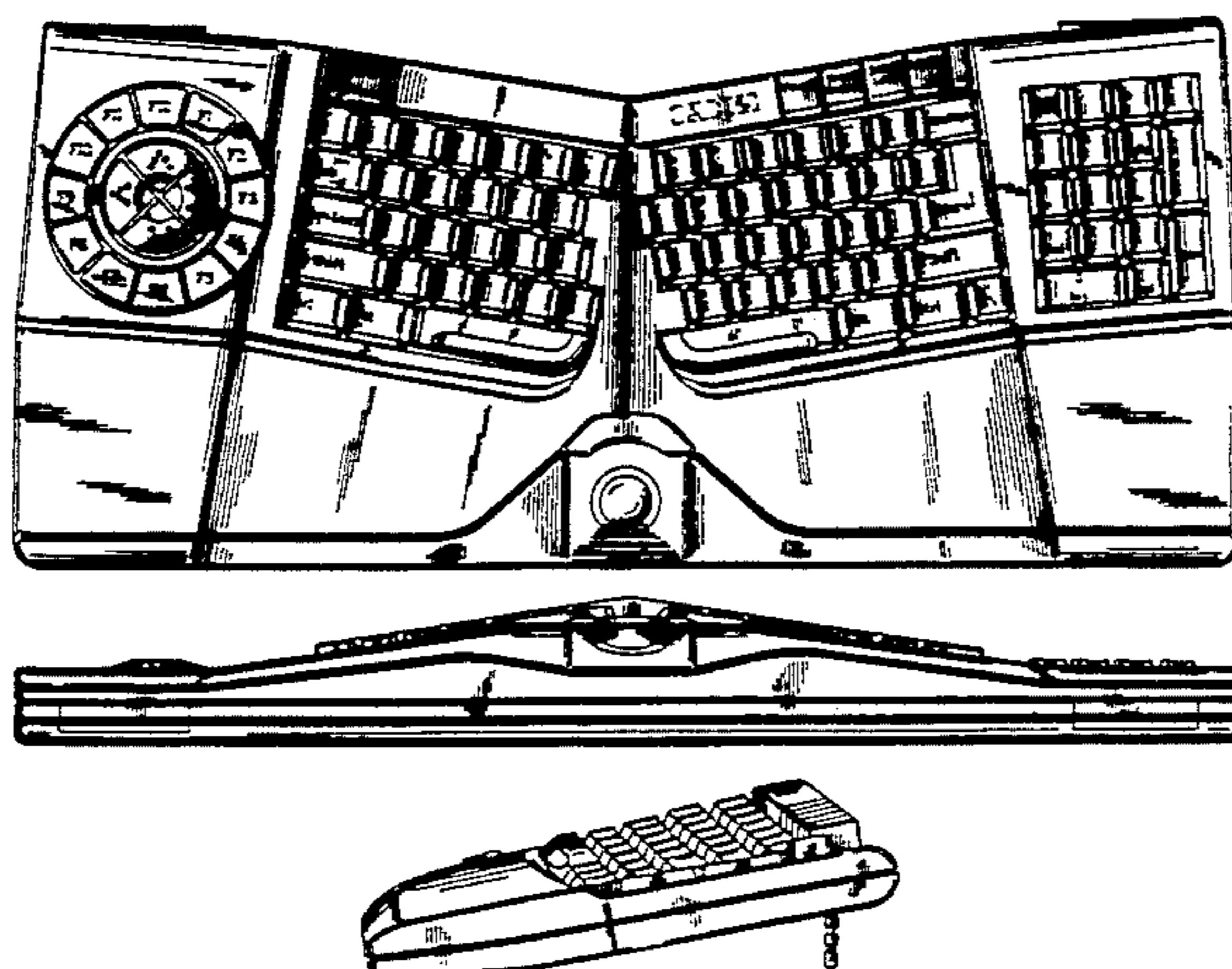
FIG. 6 is a left-hand side elevational view thereof;

FIG. 7 is a right-hand side elevational view of the keyboard raised at the front;

FIG. 8 is a right-hand side elevational view of the keyboard raised at the rear;

FIG. 9 is a raised front elevational view thereof; and,

FIG. 10 is a raised rear elevational view thereof.



U.S. PATENT DOCUMENTS

4,597,681	7/1986	Hodges .	4,974,183	11/1990	Miller .
4,658,124	4/1987	Bertina .	5,021,771	6/1991	Lachman .
4,661,005	4/1987	Lahr .	5,059,048	10/1991	Sirkin .
4,669,903	6/1987	Herzog et al. .	5,067,834	11/1991	Szmanda et al. .
4,693,444	9/1987	Williams et al. .	5,073,050	12/1991	Andrews .
4,735,394	4/1988	Facco .	5,119,078	6/1992	Grant .
4,736,191	4/1988	Matzke .	5,122,786	6/1992	Rader .
4,823,634	4/1989	Culver .	5,129,747	7/1992	Hutchison .
4,824,268	4/1989	Diernisse .	5,156,475	10/1992	Zilberman .
4,856,748	8/1989	Obermeyer .	5,160,919	11/1992	Mohler et al. .
			5,175,672	12/1992	Conner et al. .
			5,212,473	5/1993	Louis .

FIG. 1

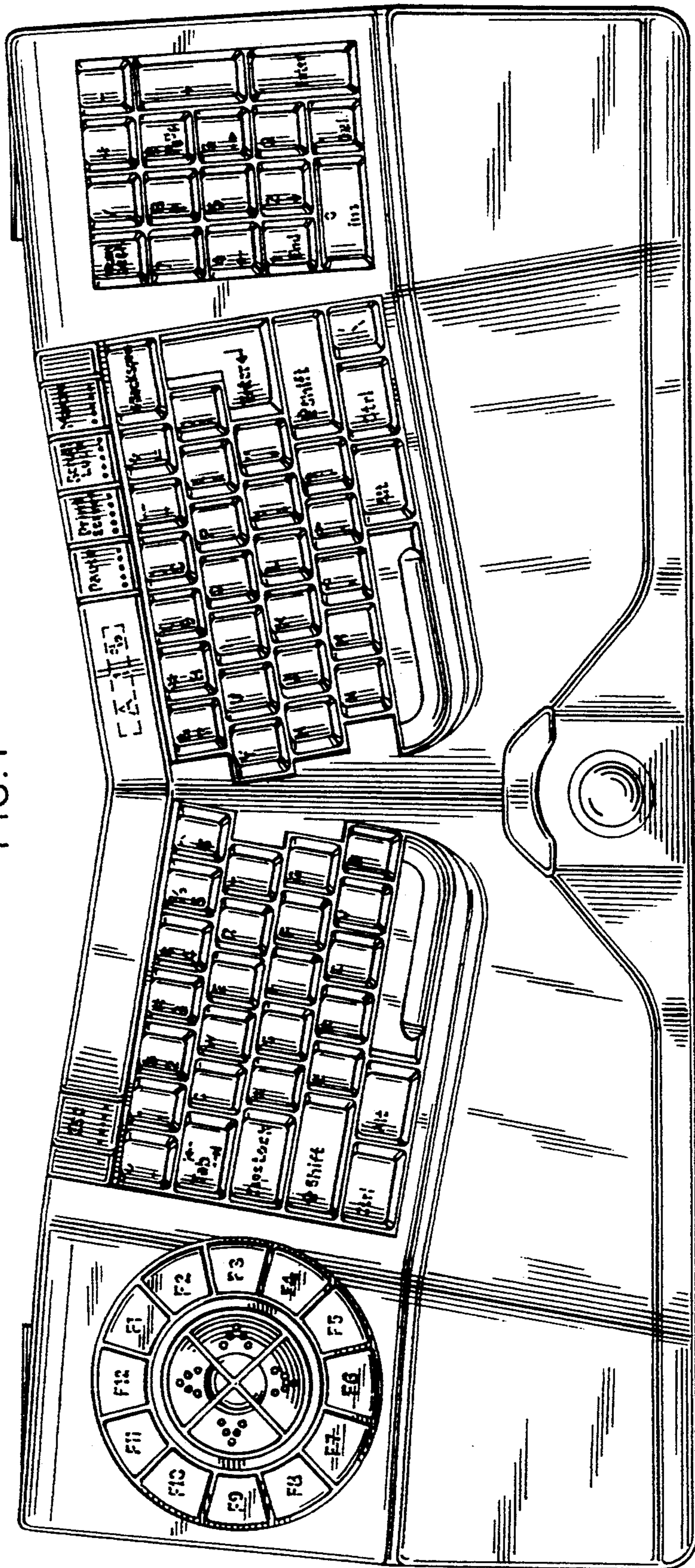


FIG. 2

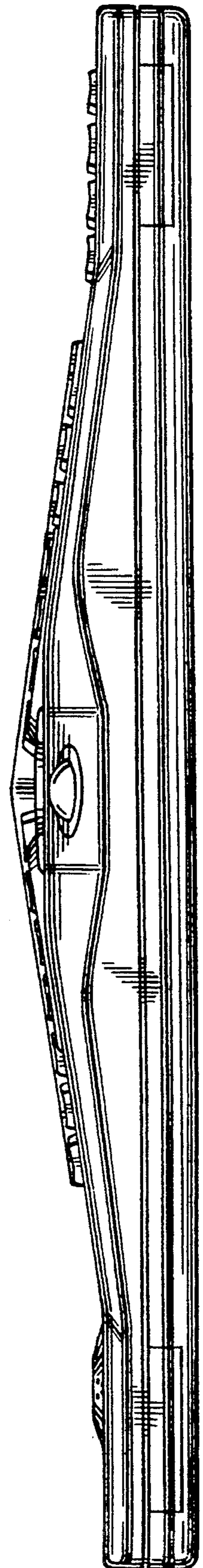


FIG. 3

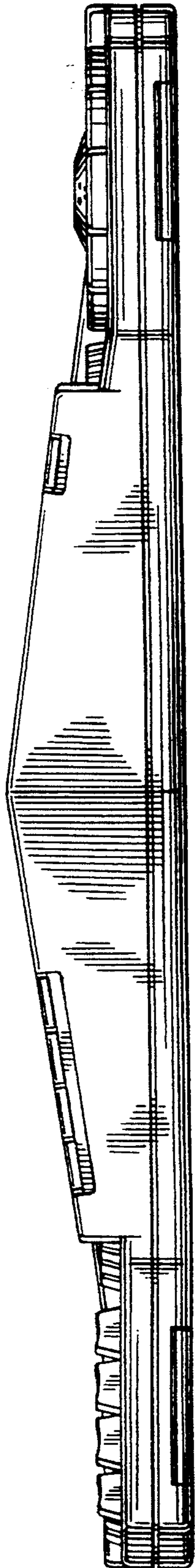


FIG. 4

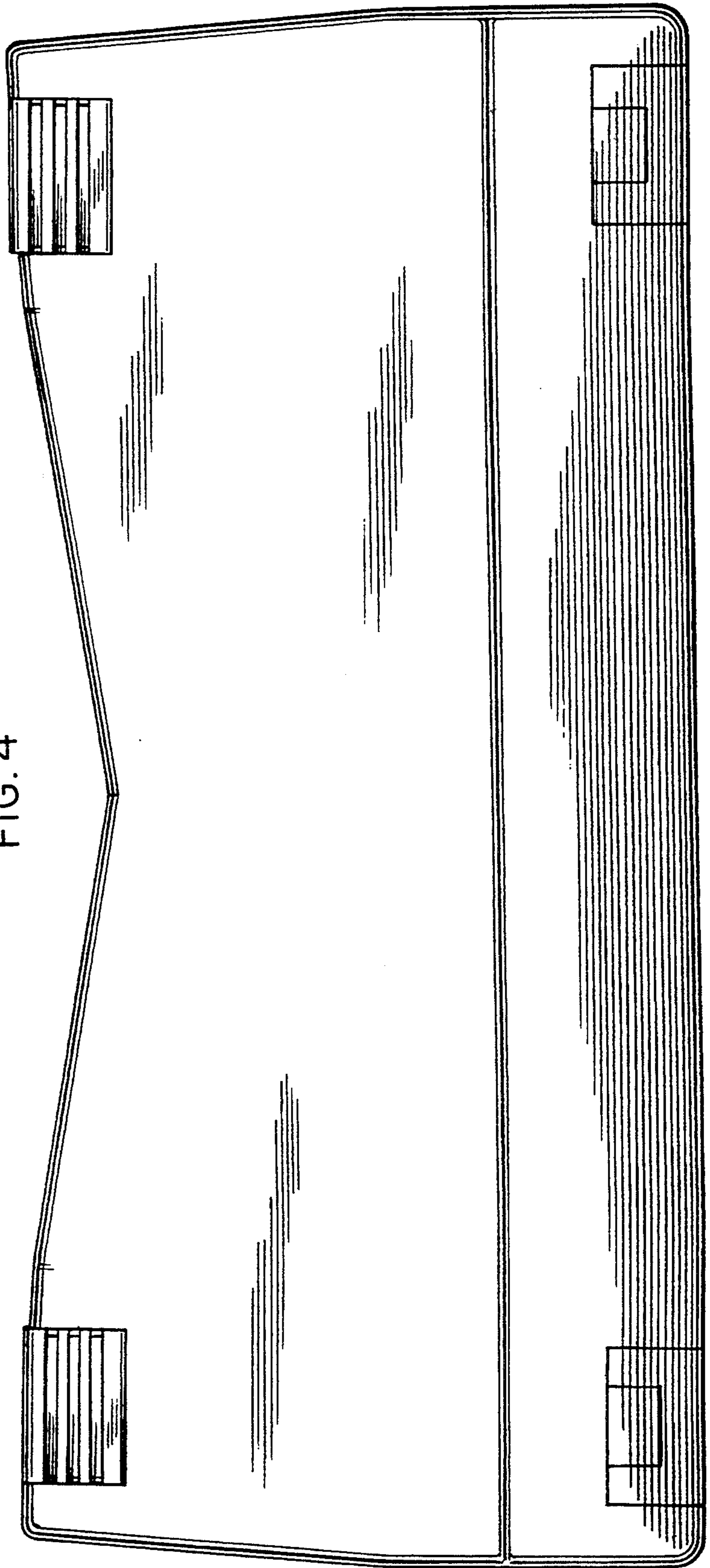


FIG. 6

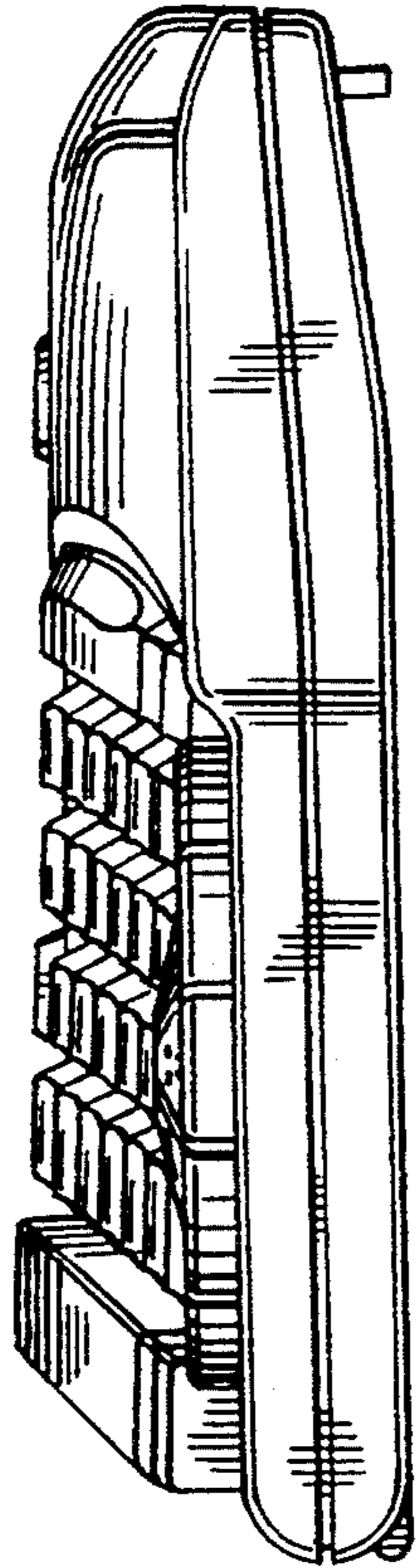


FIG. 8

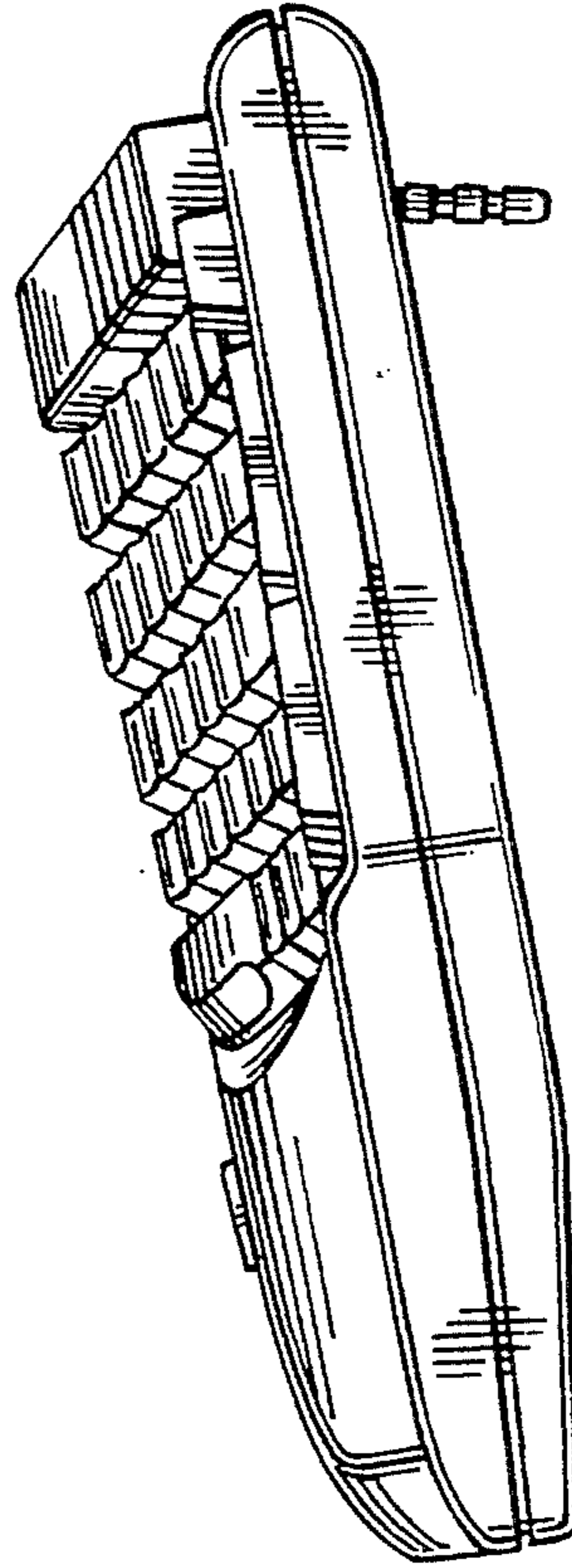


FIG. 5

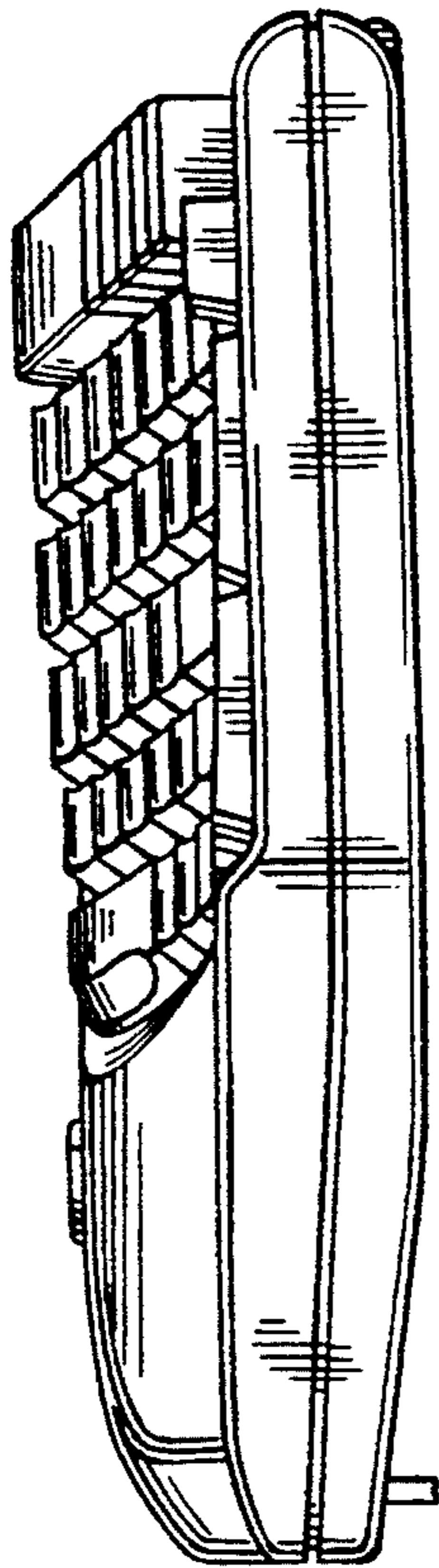


FIG. 7

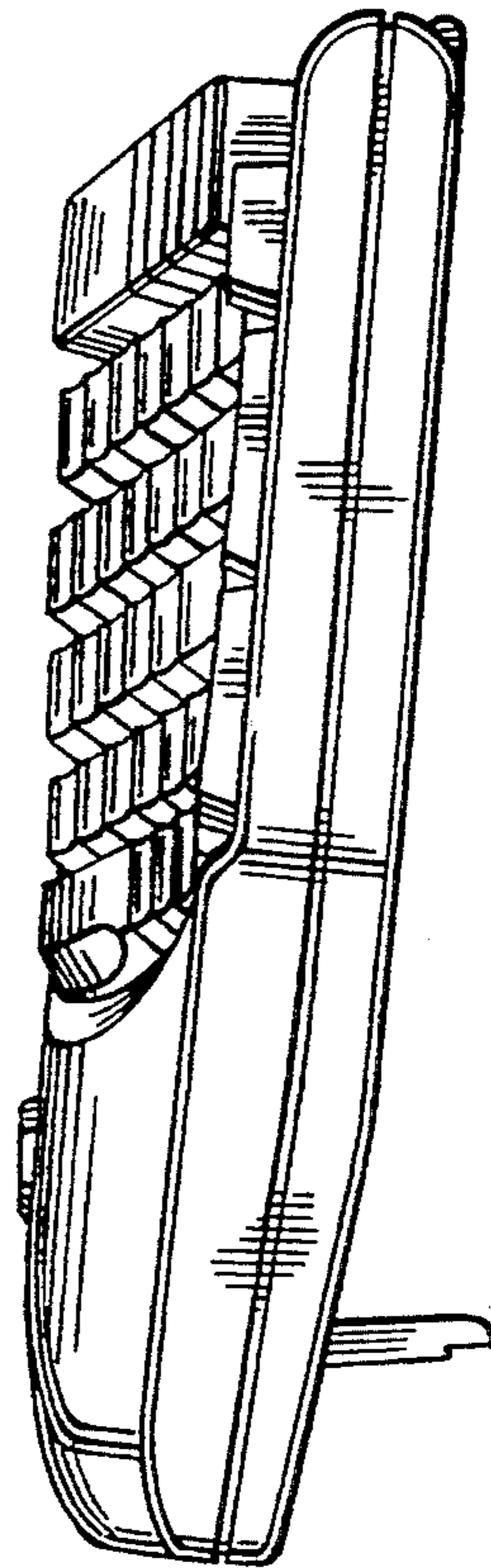


FIG. 9

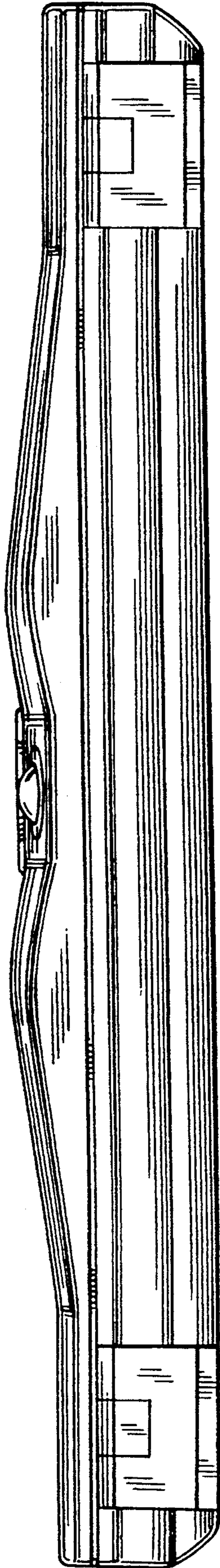


FIG. 10

