

[54] CONTROLLER FOR A SEWING MACHINE

[75] Inventors: Hiroshi Kumatani; Satomi Yamauchi, both of Nagoya; Takanobu Fujimoto, Kamakura, all of Japan

[73] Assignee: Mitsubishi Denki Kabushiki Kaisha, Tokyo, Japan

[**] Term: 14 Years

[21] Appl. No.: 436,536

[22] Filed: Nov. 14, 1989

[30] Foreign Application Priority Data

May 15, 1989 [JP] Japan 1-17591

[52] U.S. Cl. D15/72

[58] Field of Search D15/66-76, D15/78; D10/49; D13/162, 164; 112/63, 258-261, 444-445, 453-455, 457-458

[56] References Cited

U.S. PATENT DOCUMENTS

- D. 278,438 4/1985 Giugiaro D15/70
- D. 281,979 12/1985 Meier D15/69

- D. 285,571 9/1986 Eguchi et al. D15/69
- D. 305,126 12/1989 Yamaura et al. D15/72
- 4,602,583 7/1986 Hanyu 112/445
- 4,688,503 8/1987 Kato 112/445
- 4,860,678 8/1989 Skogward 112/445
- 4,870,916 10/1989 Kozawa et al. 112/445

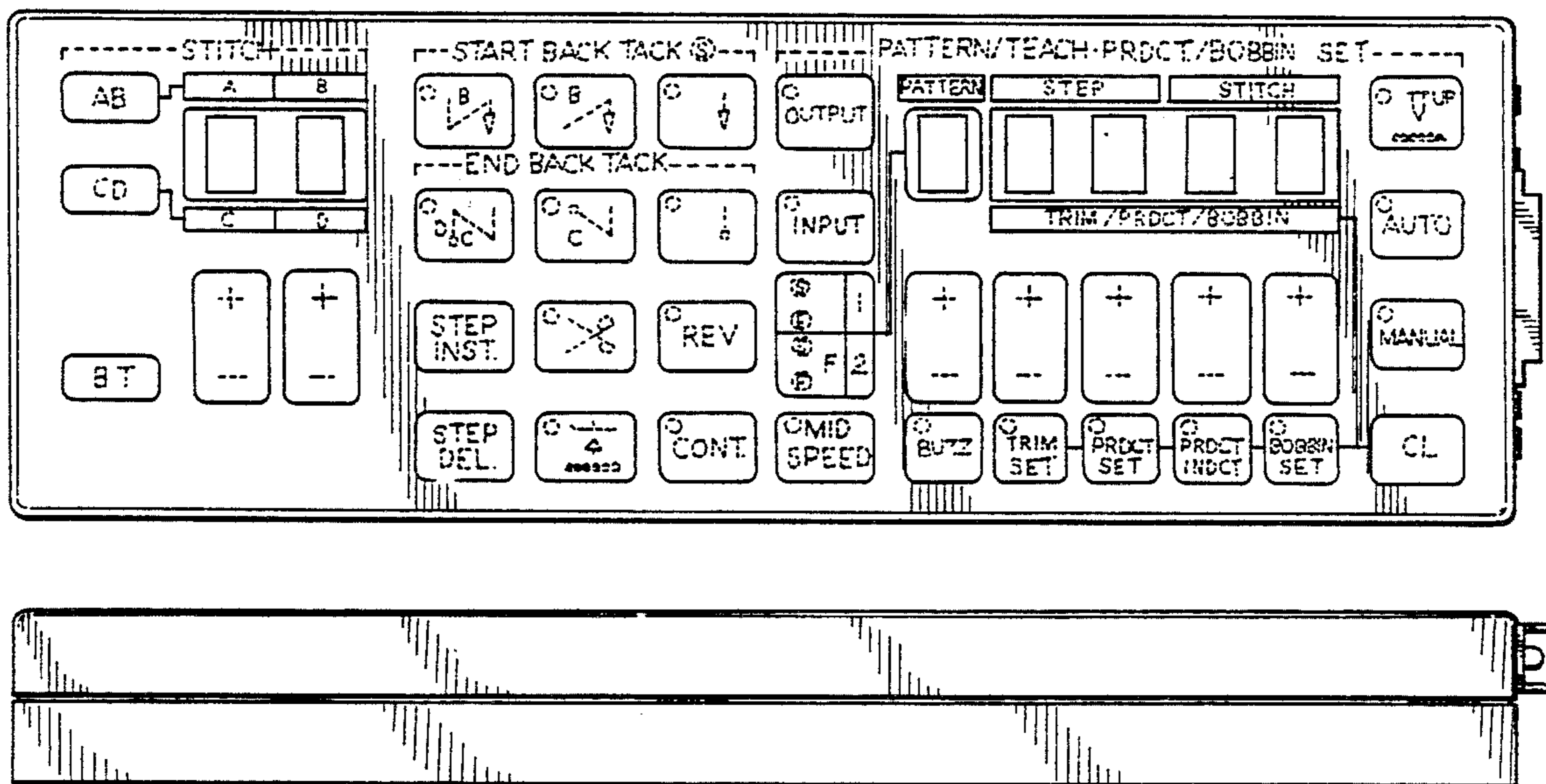
Primary Examiner—Bernard Ansher
Assistant Examiner—Sandra Morris
Attorney, Agent, or Firm—Oblon, Spivak, McClelland, Maier & Neustadt

[57] CLAIM

The ornamental design for a controller for a sewing machine, as shown.

DESCRIPTION

FIG. 1 is a front elevational view of a controller for a sewing machine, showing our new design, the broken lines showing the written indicia is for illustrative purposes only, and forms no part of the claimed design; FIG. 2 is a rear elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a right side elevational view thereof.



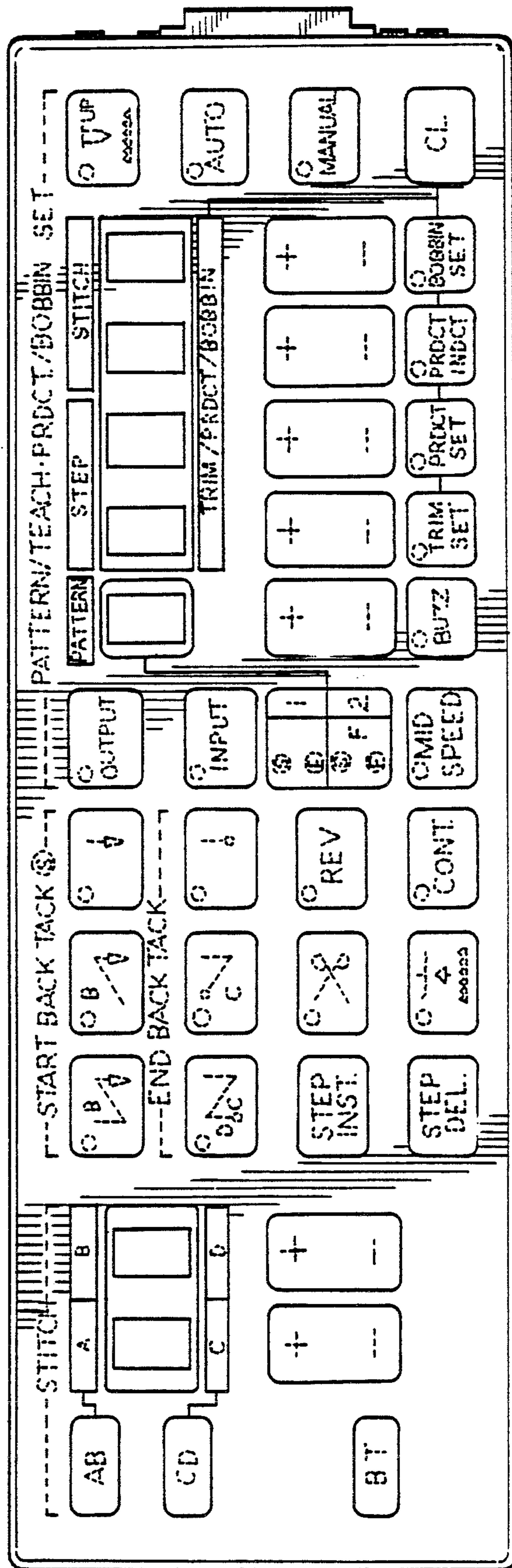


FIG. 1

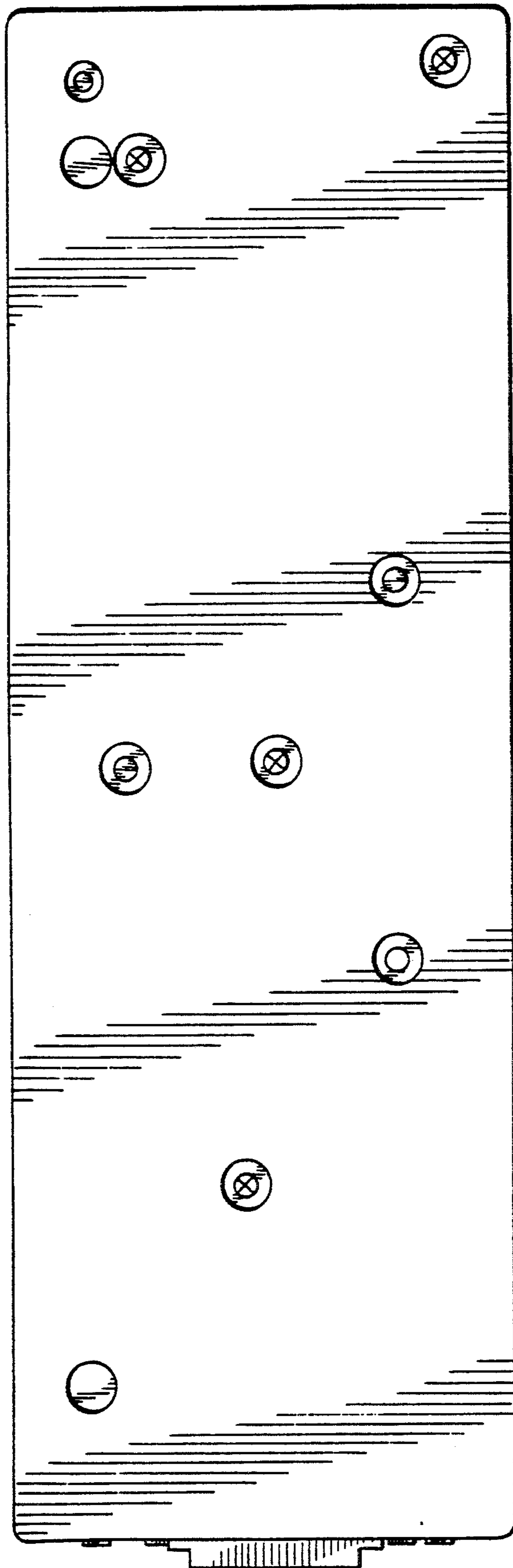


FIG. 2

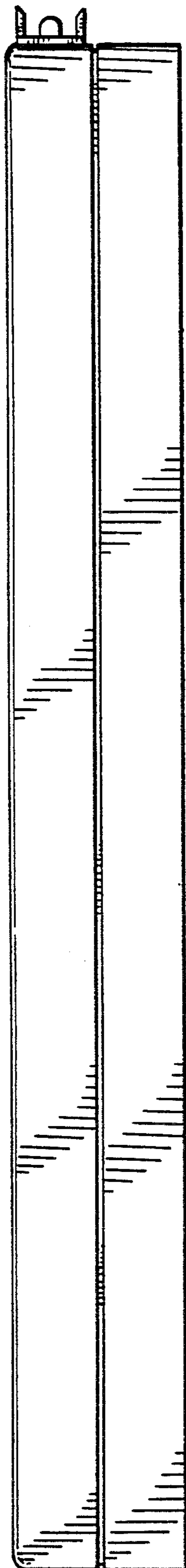


FIG. 3

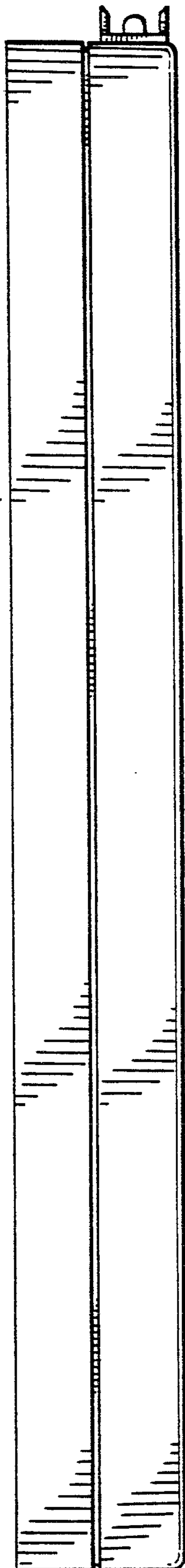


FIG. 4

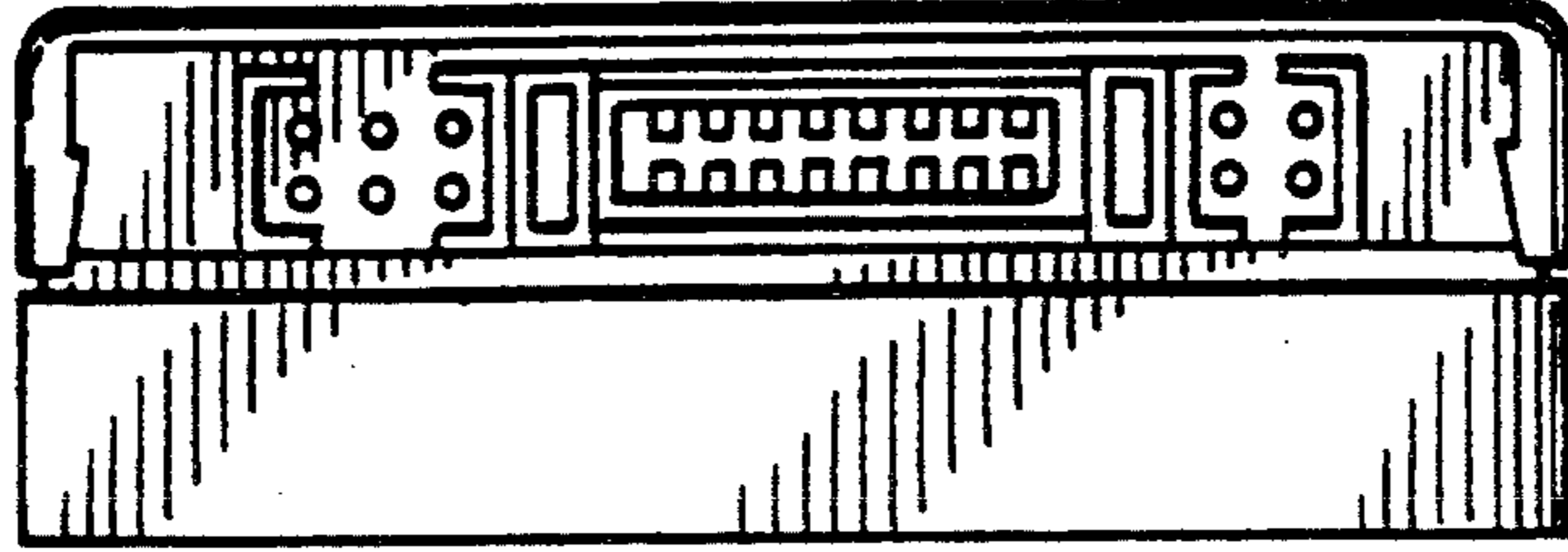


FIG. 6

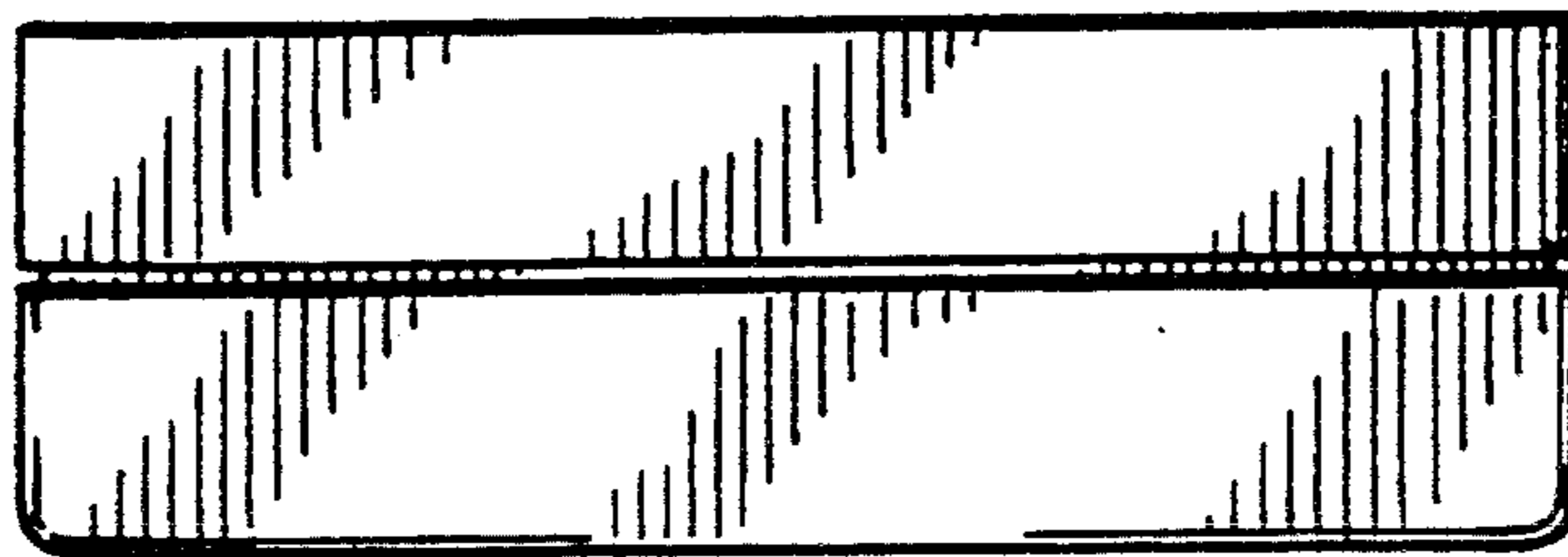


FIG. 5