United States Patent [19]

Holmer et al.

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[45] **Date of Patent: ** Apr. 24, 1990**

[54] **PROGRAMMING AND CONTROL BOX FOR AN INDUSTRIAL ROBOT**

[75] Inventors: **Anders Holmer,** Västerås; **Owe Pettersson,** Surahammar; **Mats Tornros,** Västerås; **Peter Maddock,** Stockholm, all of Sweden

[73] Assignee: **Asea AB,** Västerås, Sweden

[**] Term: **14 Years**

[21] Appl. No.: **938,763**

[22] Filed: **Dec. 5, 1986**

[30] **Foreign Application Priority Data**

Jun. 5, 1986 [SE] Sweden 86-1370

[52] **U.S. Cl.** **D13/164;** D13/168

[58] **Field of Search** D13/12, 35, 40, 41, D13/99; D14/100, 101, 114; 361/331–334, 346, 390–394; 364/141, 146, 147, 188, 190–193; 901/3, 4, 5

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,074,350 2/1978 Roch et al. ..... D13/12 X
4,379,335 4/1983 Kirsch et al. 901/5

OTHER PUBLICATIONS

pp. 145–150 From ASEA Journal, vol. 55, No. 6 (1982), "Man/Machine Communication in ASEA's New Robot Controller".
Design News, 11–4–85, p. 21 Robot Programmer.
Hitachi Folder, teaching box programmed.
Welding & Metal Fabrication, 3–82, p. 75 programming gun.

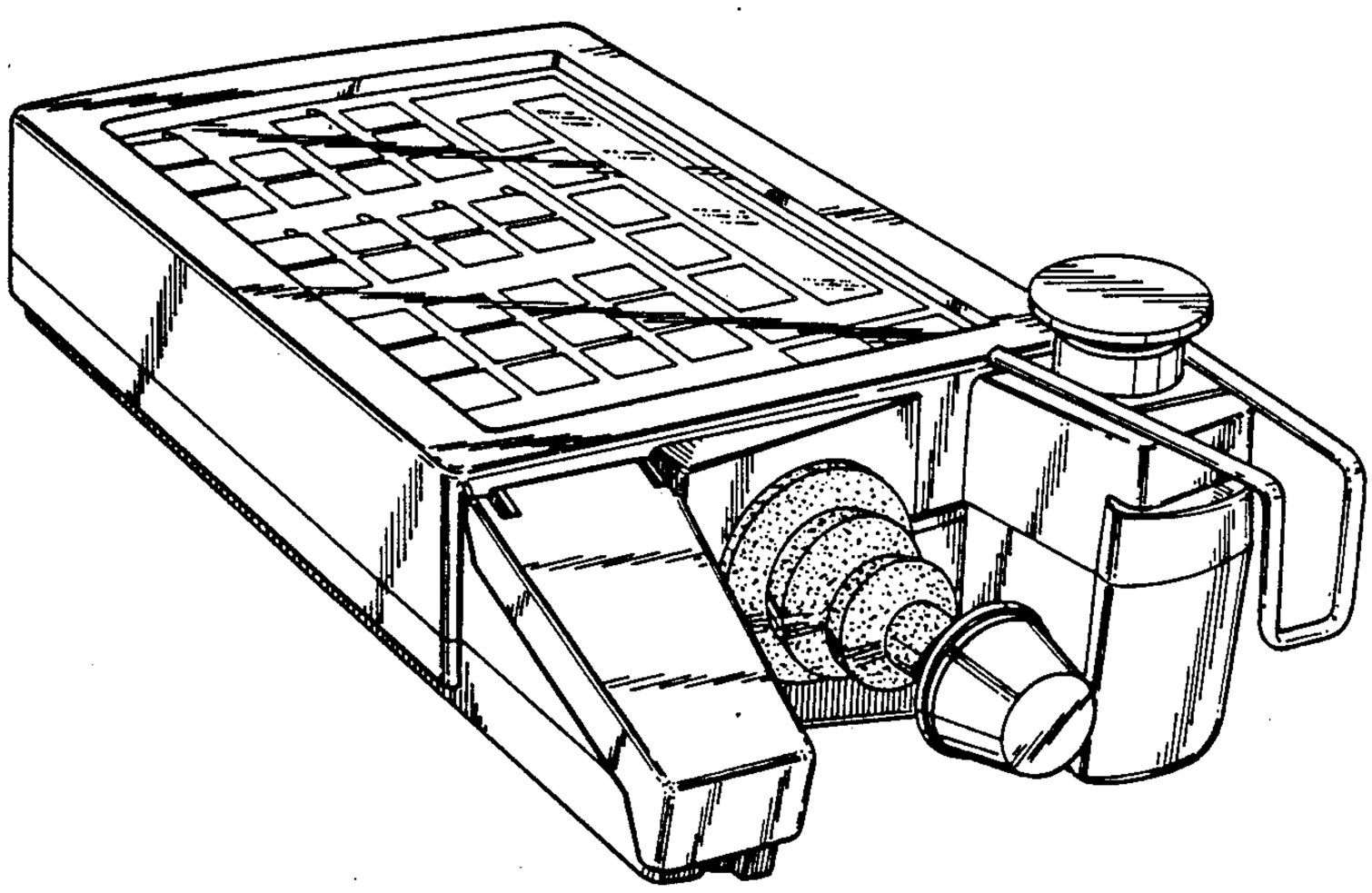
Primary Examiner—Susan J. Lucas
Assistant Examiner—Joel Sincavage
Attorney, Agent, or Firm—Young & Thompson

[57] **CLAIM**

The ornamental design for a programming and control box for an industrial robot, as shown and described.

DESCRIPTION

FIG. **1** is a top and right side perspective view of a programming and control box for an industrial robot, showing our new design;
FIG. **2** is a bottom and left side view perspective thereof;
FIG. **3** is a top plan view thereof;
FIG. **4** is a bottom plan view thereof;
FIG. **5** is a left end elevational view thereof;
FIG. **6** is a right end elevational view thereof;
FIG. **7** is a front elevational view thereof; and
FIG. **8** is a rear elevational view thereof.



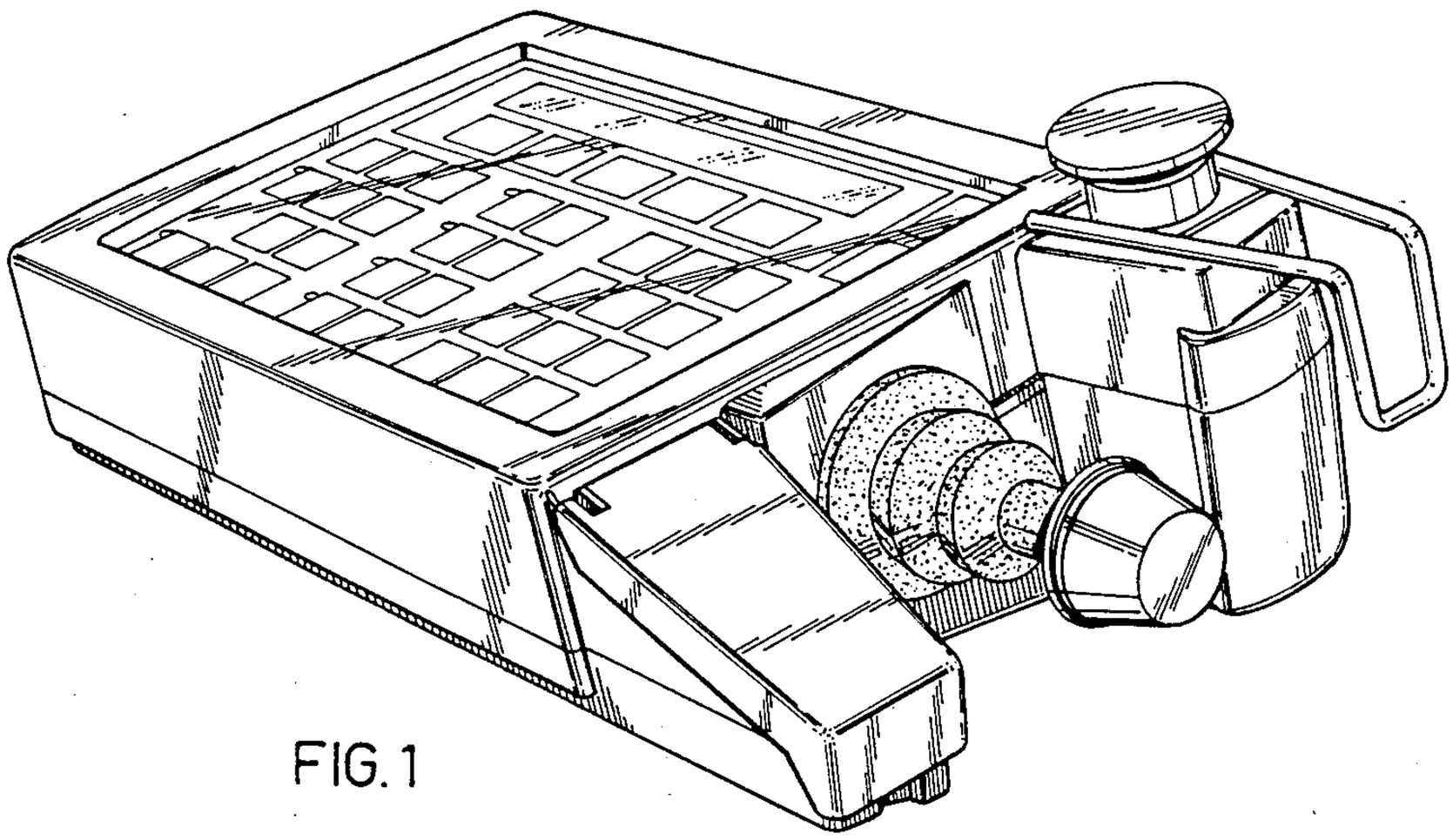


FIG. 1

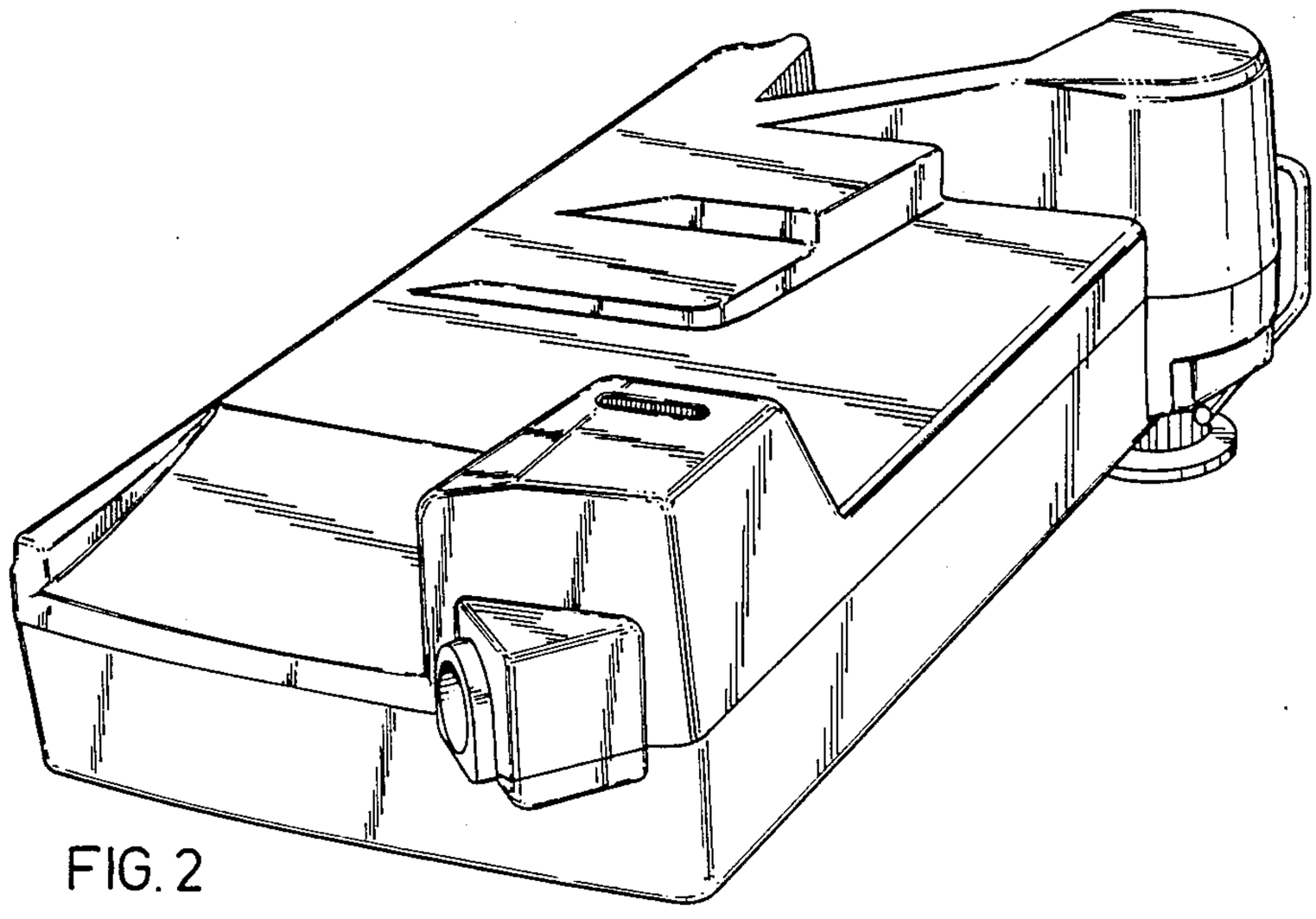


FIG. 2

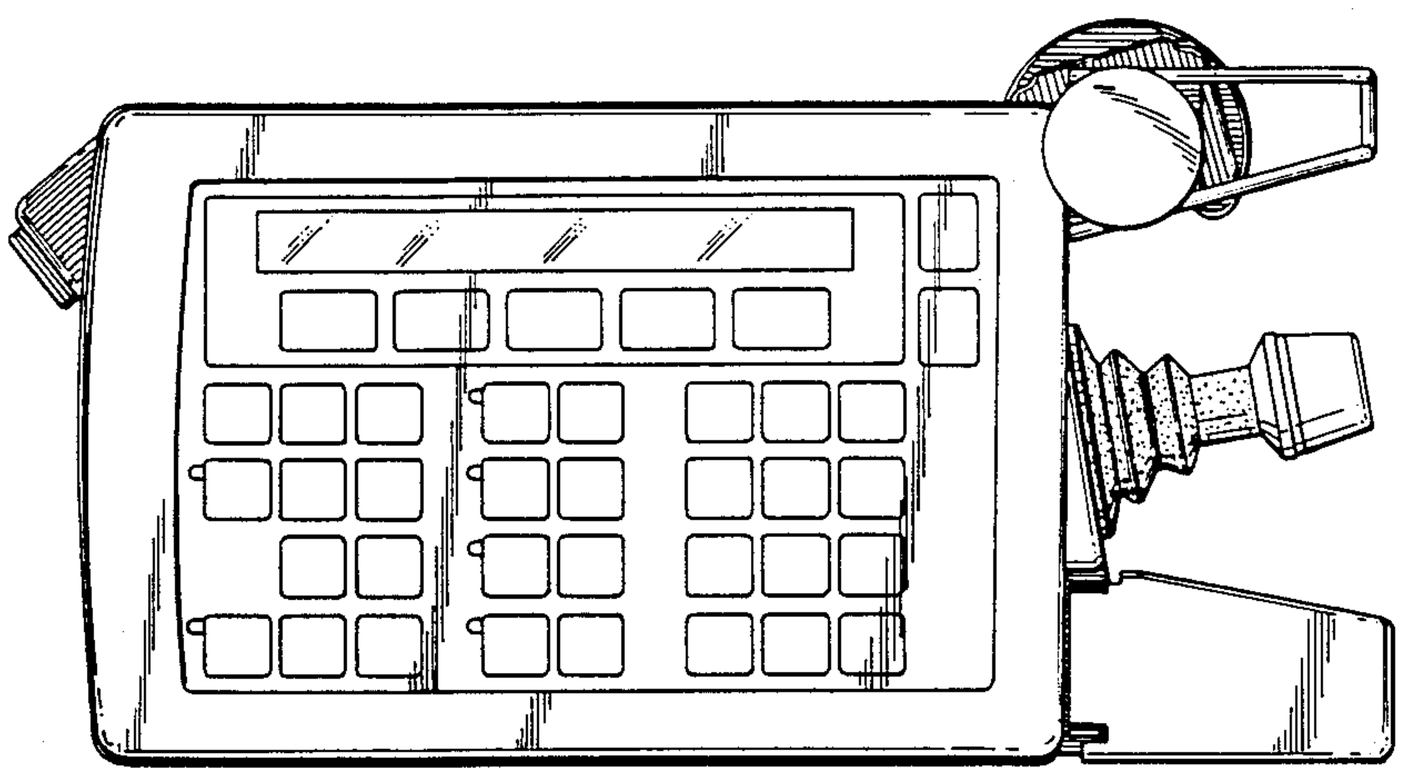


FIG. 3

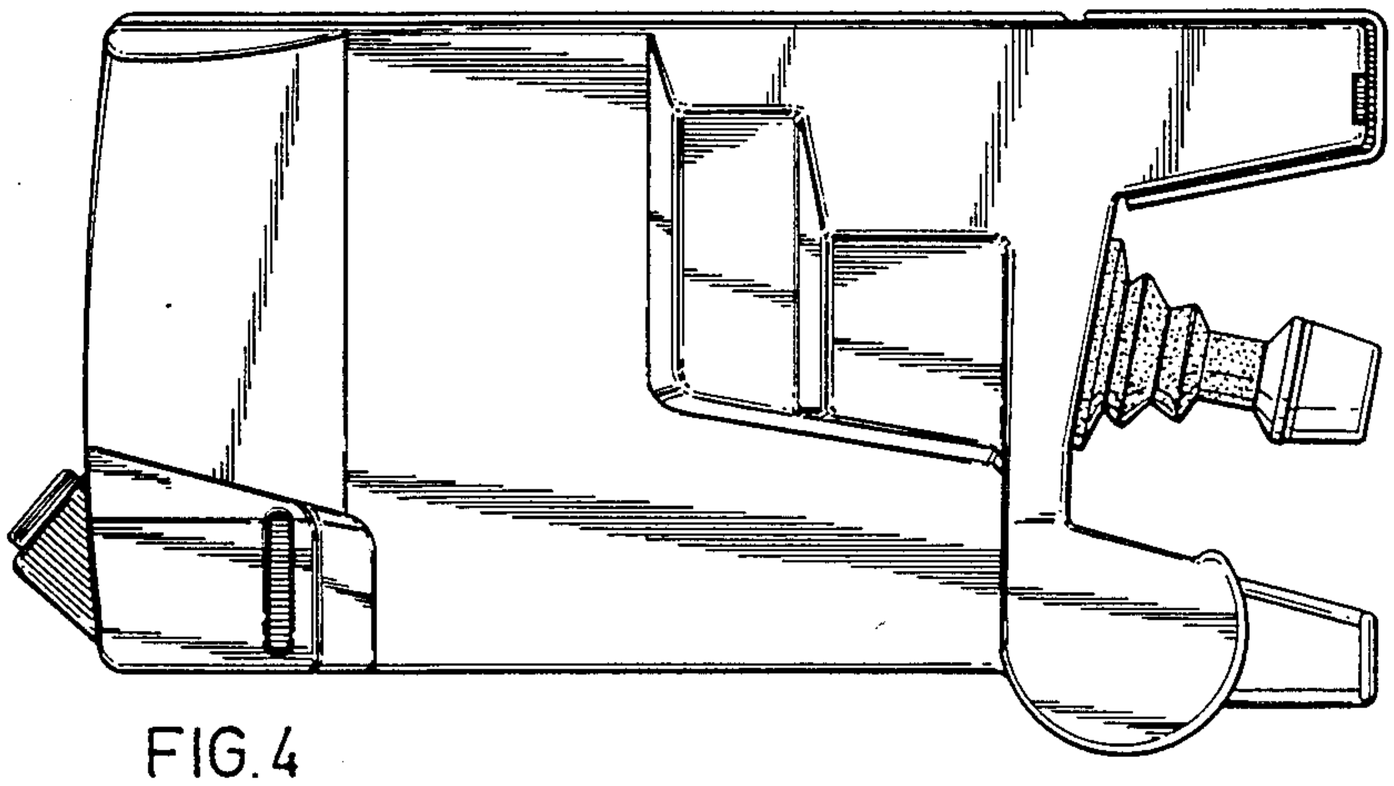


FIG. 4

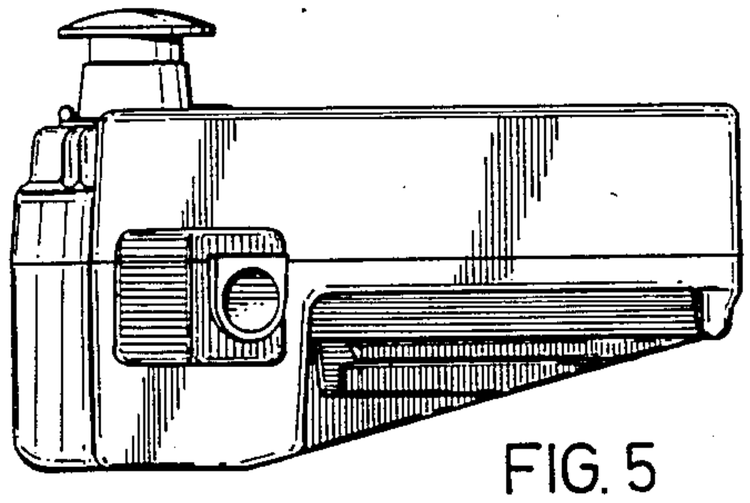


FIG. 5

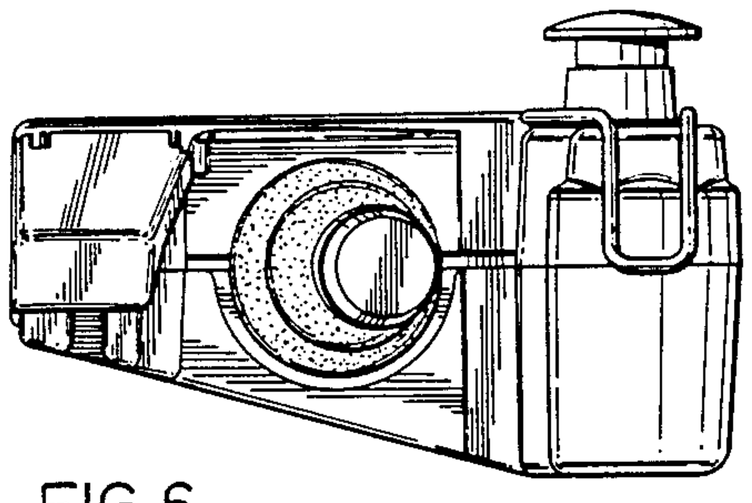


FIG. 6

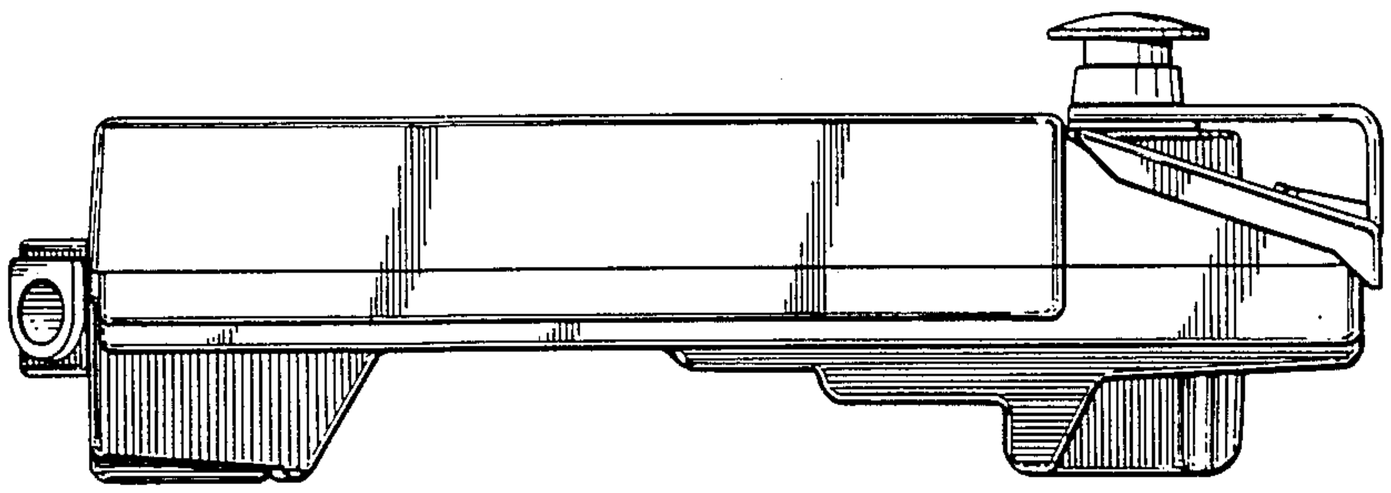


FIG. 7

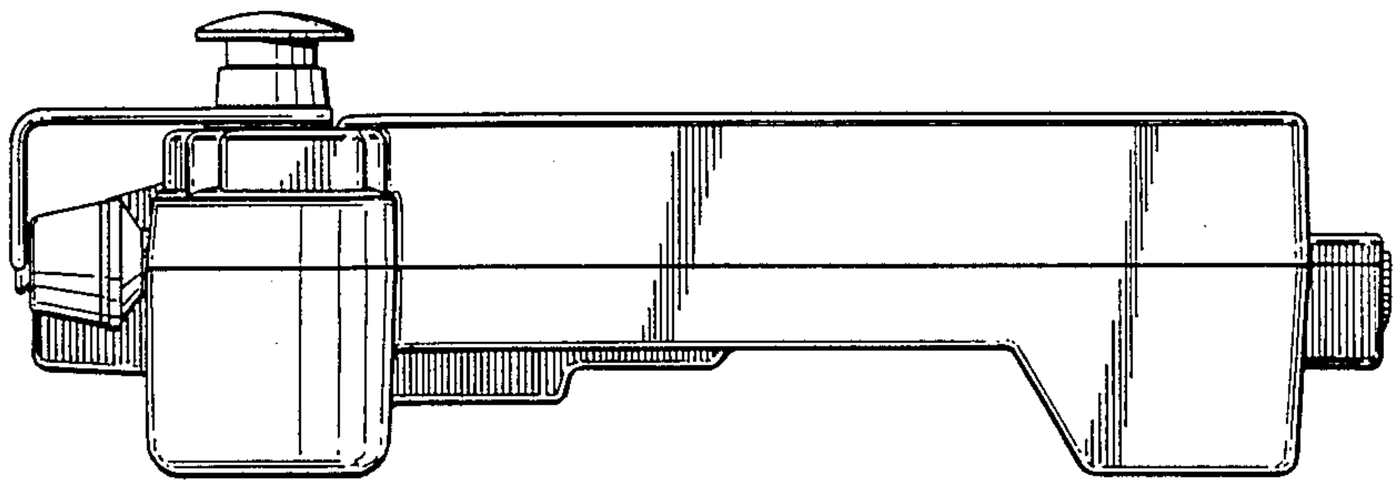


FIG. 8