United States Patent [19]

Kagayama et al.

[11] **Patent Number: Des. 302,824**

[45] **Date of Patent: ** Aug. 15, 1989**

[54] **CARTESIAN COORDINATES TYPE ROBOT**

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[73] Assignee: **Matsushita Electric Industrial Co., Ltd.,** Osaka, Japan

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

[21] Appl. No.: **905,110**

[22] Filed: **Sep. 8, 1986**

[30] **Foreign Application Priority Data**

Apr. 22, 1986 [JP] Japan 61-15006

[52] **U.S. Cl.** **D15/199;** D15/122

[58] **Field of Search** D15/122, 199; 44/749, 44/750; 901/16

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 289,409	4/1987	Shibayama et al.	D15/199
D. 292,003	9/1987	Imaizumi et al.	D15/199
D. 294,589	3/1988	Kajiya	D15/199
4,583,909	4/1986	Yamashita et al.	901/16
4,701,100	10/1987	Nagai et al.	901/16
4,721,005	1/1988	Yoshiji	414/749

OTHER PUBLICATIONS

Starobot catalogue dated 1985—Star Seiko.
Robotec C3000Series dated 1985—Daikin.
Nitoman MT catalogue dated 1985 (further date unknown) Nitto Seiko.
NEC Assembly Robots NR-361B, NR-361D catalogue dated 1985.
GA100B Assembly Robot catalogue dated 1985, Fuji Electric.

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[57] **CLAIM**

The ornamental design for a cartesian coordinates type robot, as shown.

DESCRIPTION

FIG. **1** is a front, top and right side perspective view of a cartesian coordinates type robot showing our new design;
FIG. **2** is a rear, bottom and left side perspective view thereof;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a top plan view thereof;
FIG. **5** is a rear elevational view thereof;
FIG. **6** is a bottom plan view thereof;
FIG. **7** is a right side elevational view thereof; and
FIG. **8** is a left side elevational view thereof.

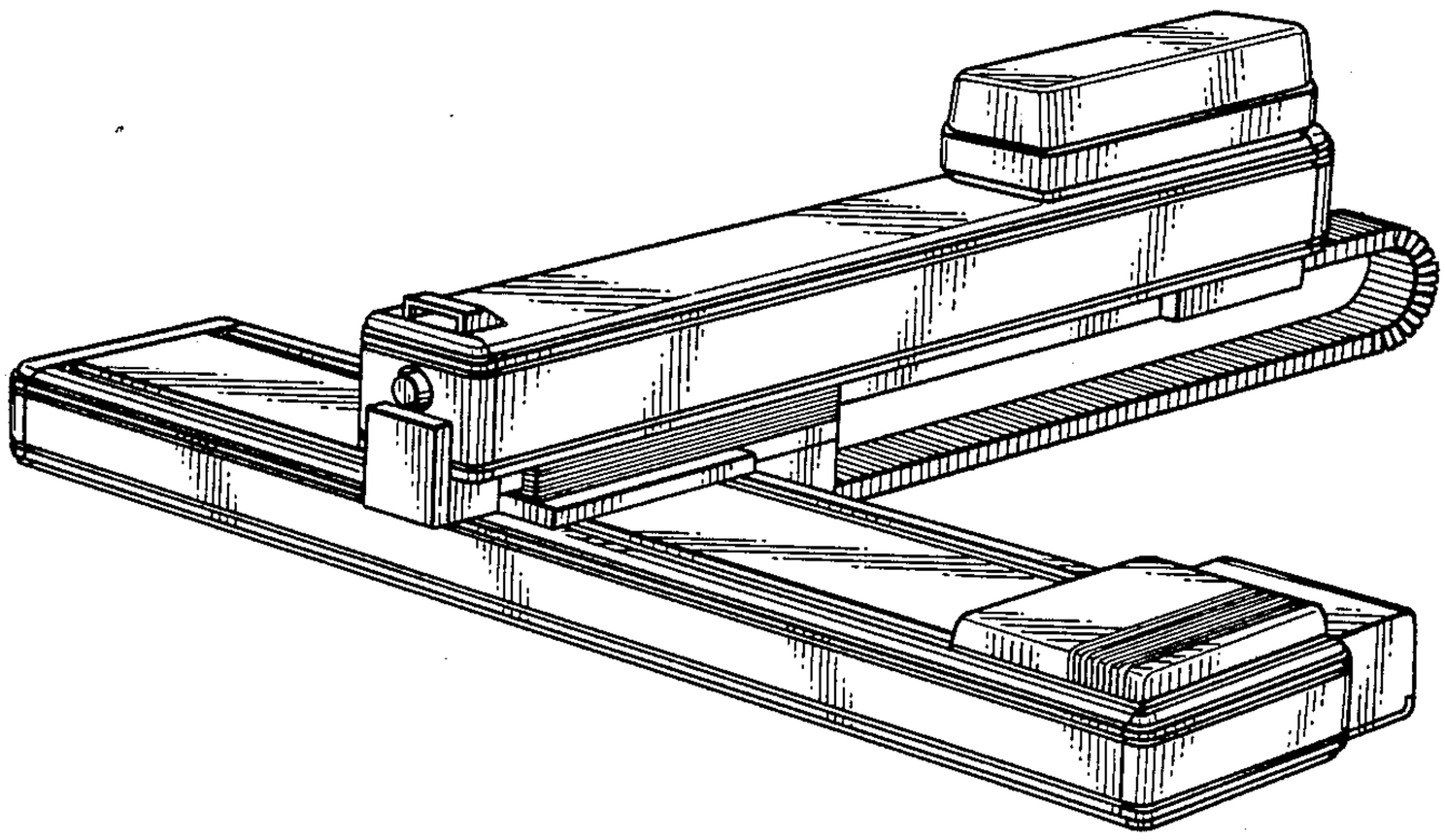

Fig. 1

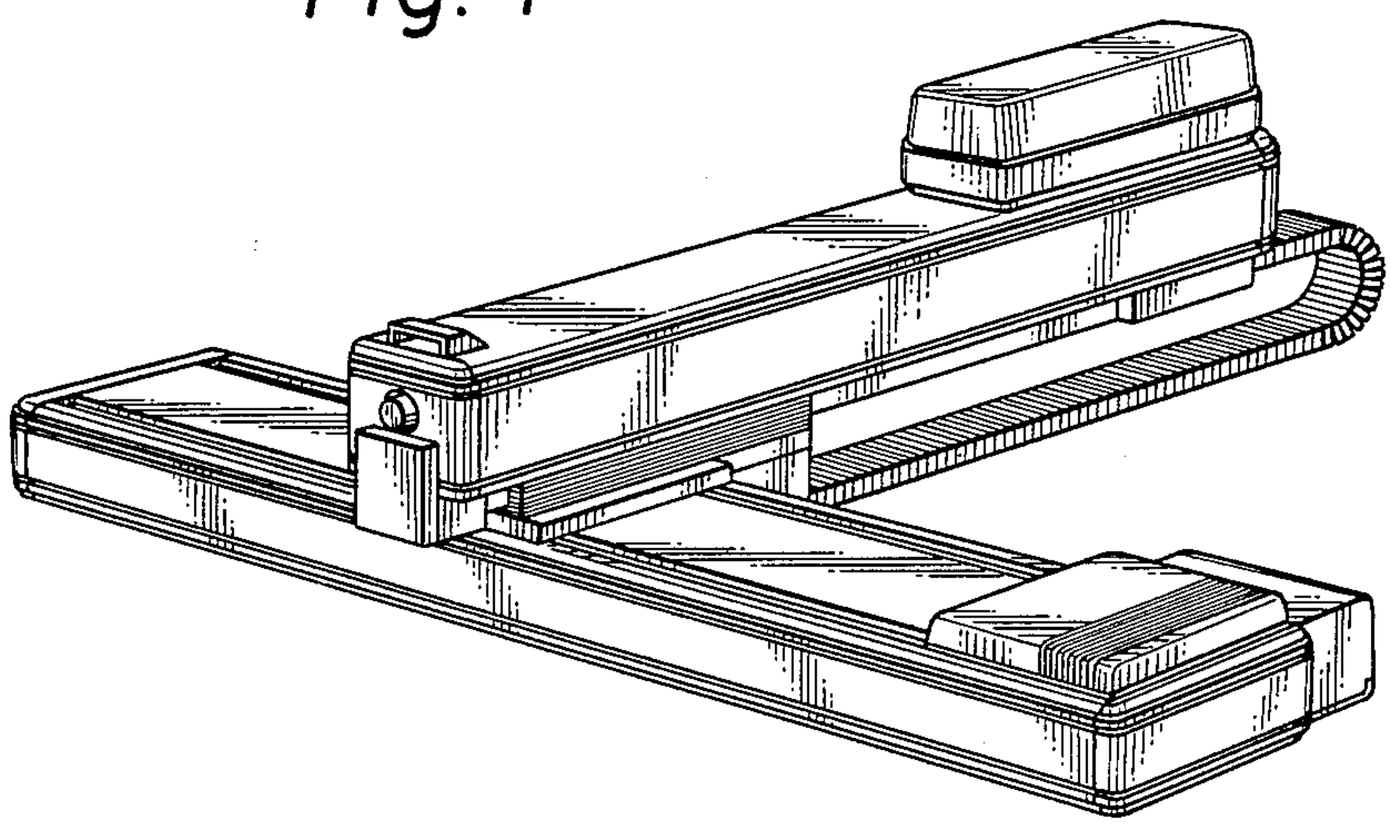

Fig. 2

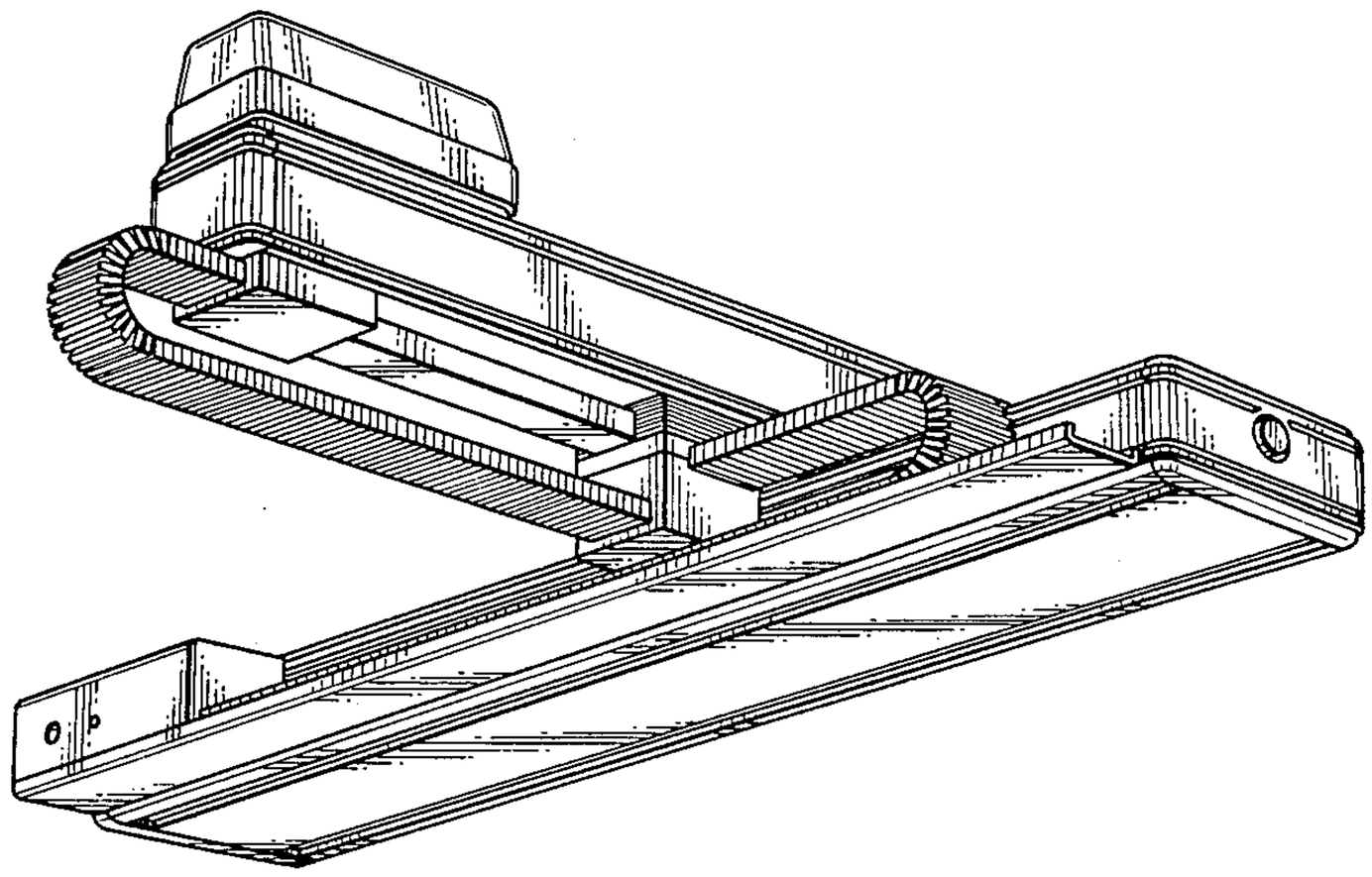

Fig. 3

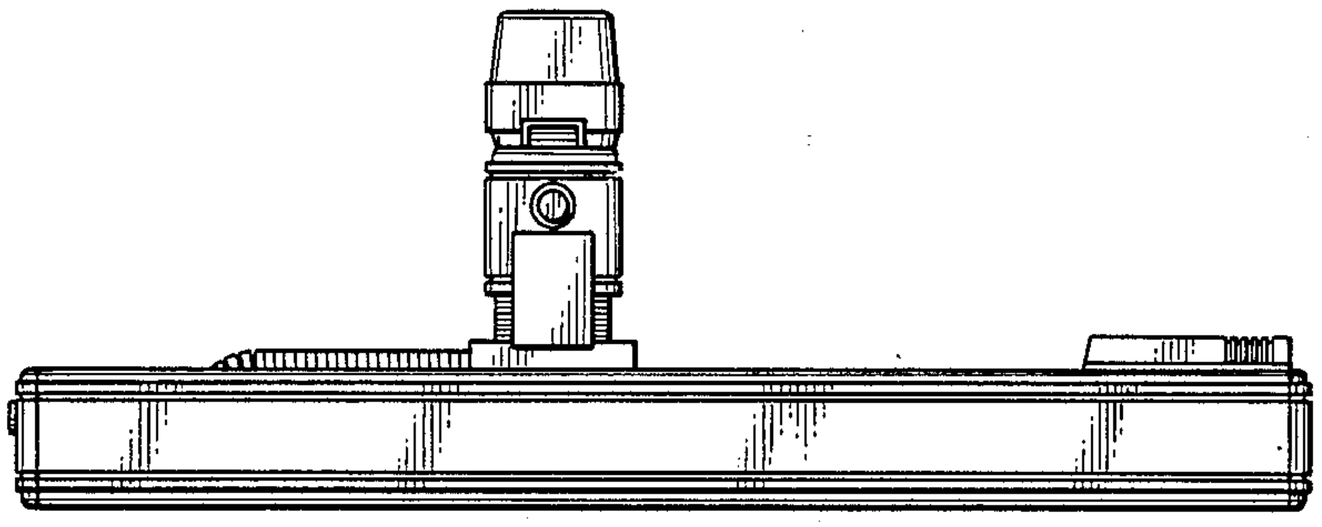

Fig. 4

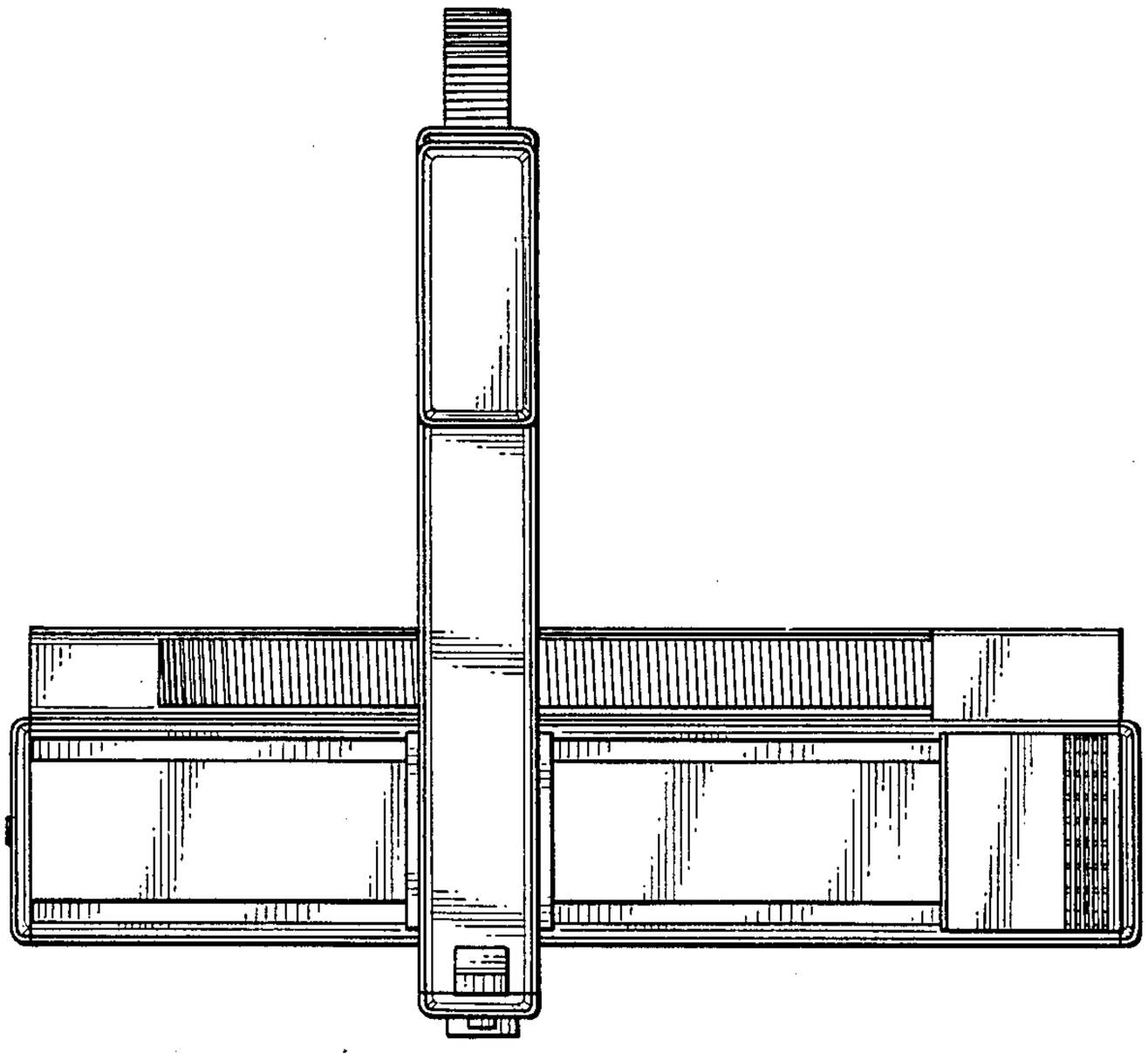

Fig. 5

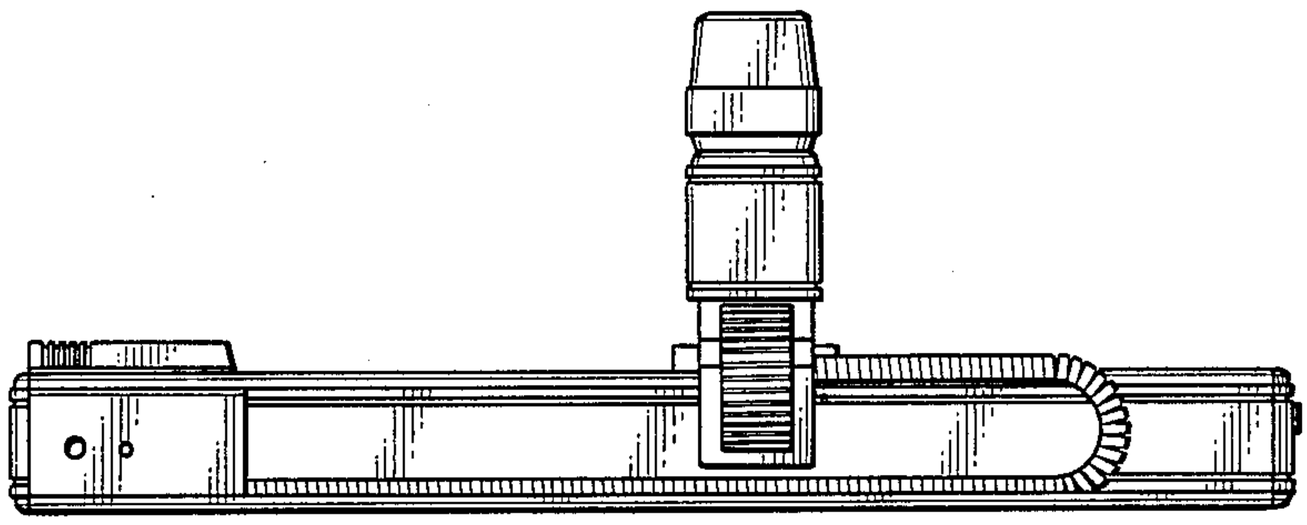

Fig. 6

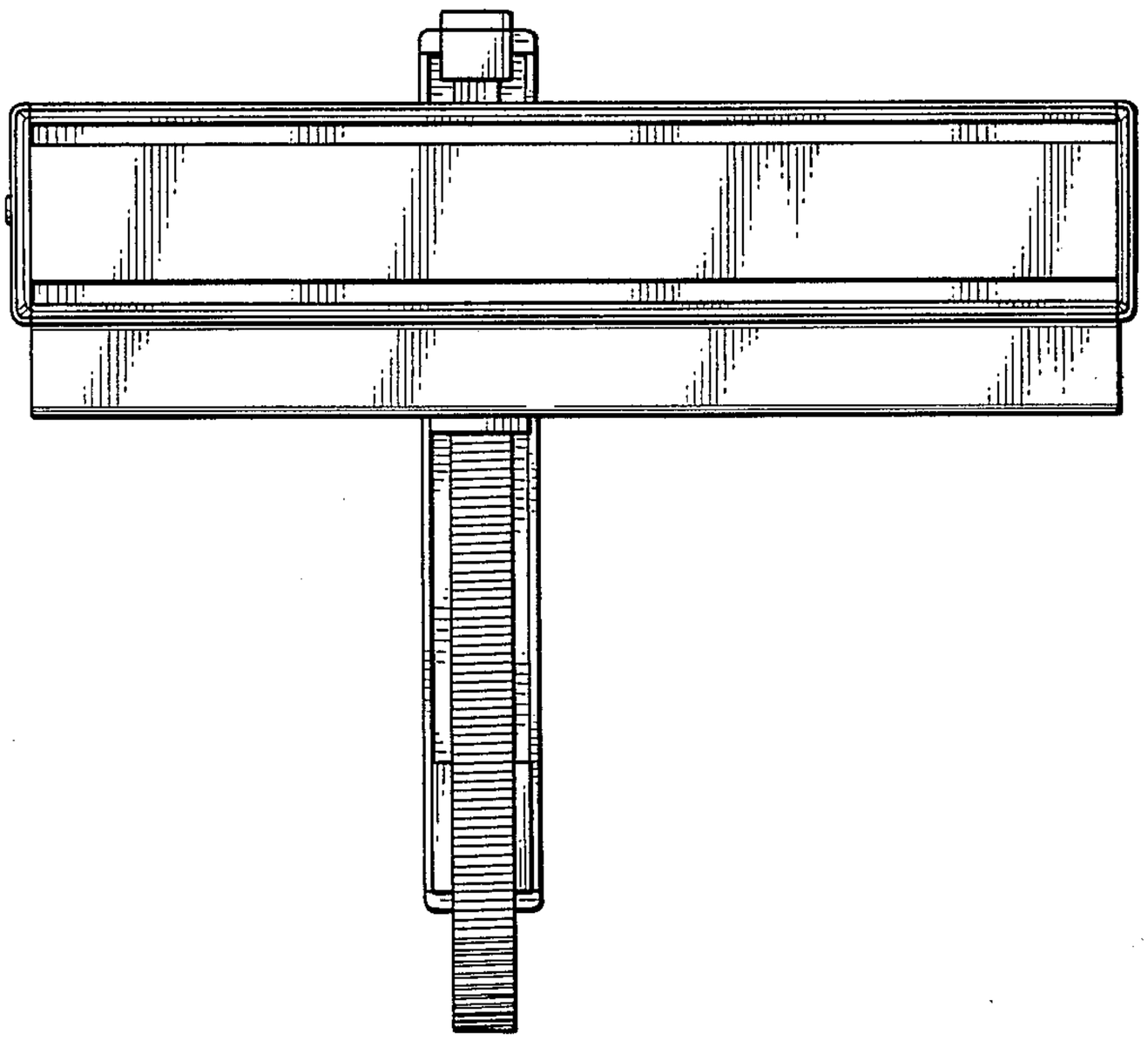

Fig. 7

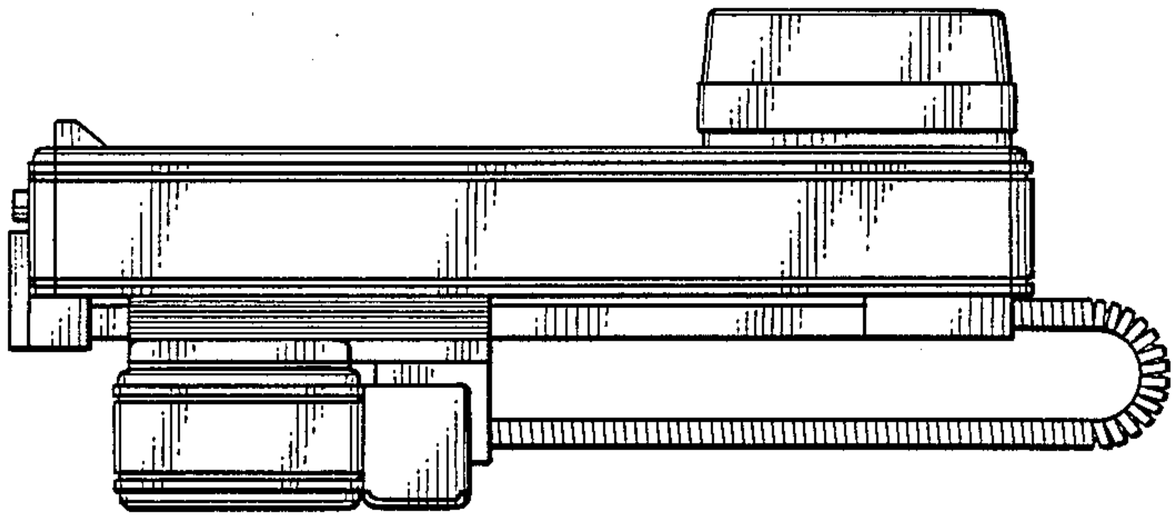

Fig. 8