

# United States Patent [19]

Tanizawa et al.

[11] Patent Number: Des. 319,072

[45] Date of Patent: \*\* Aug. 13, 1991

[54] **AUTO DOCUMENT FEEDER**

[75] Inventors: **Akiyoshi Tanizawa; Yasushi Kamezaki; Kazushi Takimoto**, all of Osaka, Japan

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

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

[21] Appl. No.: **365,986**

[22] Filed: **Jun. 14, 1989**

[30] **Foreign Application Priority Data**

Dec. 16, 1988 [JP] Japan ..... 63-49228

[52] U.S. Cl. .... **D18/42**

[58] Field of Search ..... **D18/36-42;**  
271/10, 110, 111; 355/308

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

- D. 295,532 5/1988 Kosako ..... D18/42
- D. 298,759 11/1988 Hashimoto et al. .... D18/42
- D. 298,948 12/1988 Ishill et al. .... D18/42
- D. 299,833 2/1989 Hirata ..... D18/42

- D. 312,094 11/1990 Hashimoto ..... D18/42
- D. 313,618 1/1991 Kosako et al. .... D18/42
- 4,775,139 10/1988 Honjo et al. .... 271/10
- 4,884,107 11/1989 Watanabe ..... D18/42 X

**FOREIGN PATENT DOCUMENTS**

751433 12/1988 Japan .

*Primary Examiner*—Nelson C. Holtje  
*Assistant Examiner*—Caron D. Veynar  
*Attorney, Agent, or Firm*—Sughrue, Mion, Zinn,  
Macpeak & Seas

[57] **CLAIM**

The ornamental design for an auto document feeder, as shown.

**DESCRIPTION**

FIG. 1 is a front, top and right side perspective view of an auto document feeder showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a top plan view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a right side elevational view thereof; and FIG. 7 is a left side elevational view thereof.

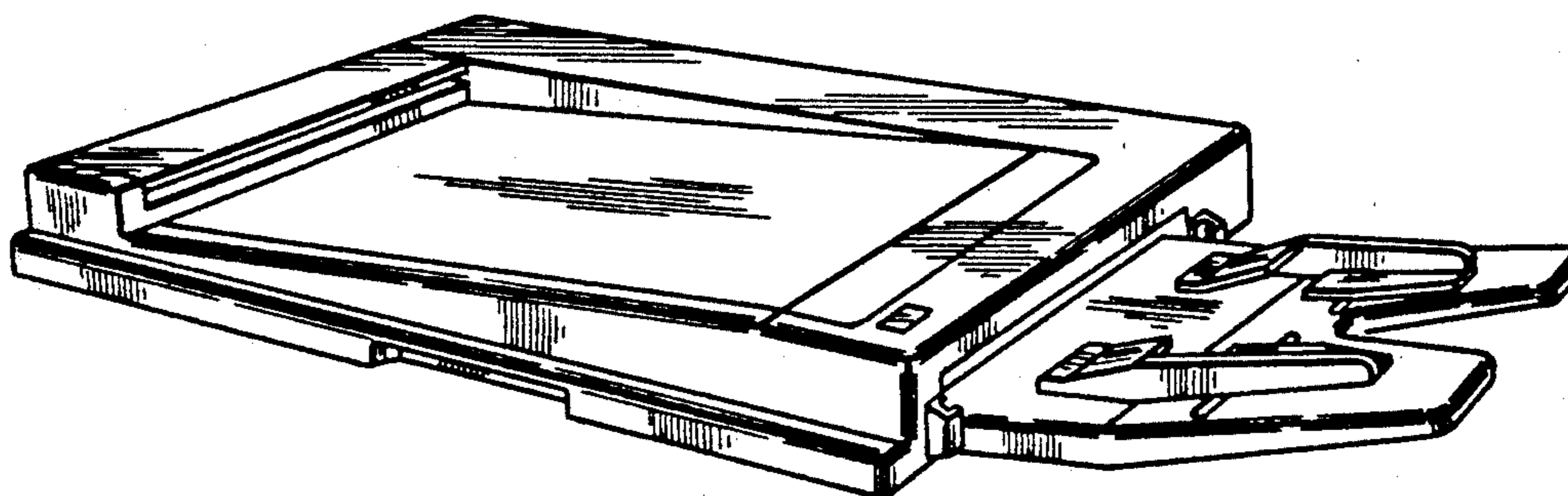


FIG. 1

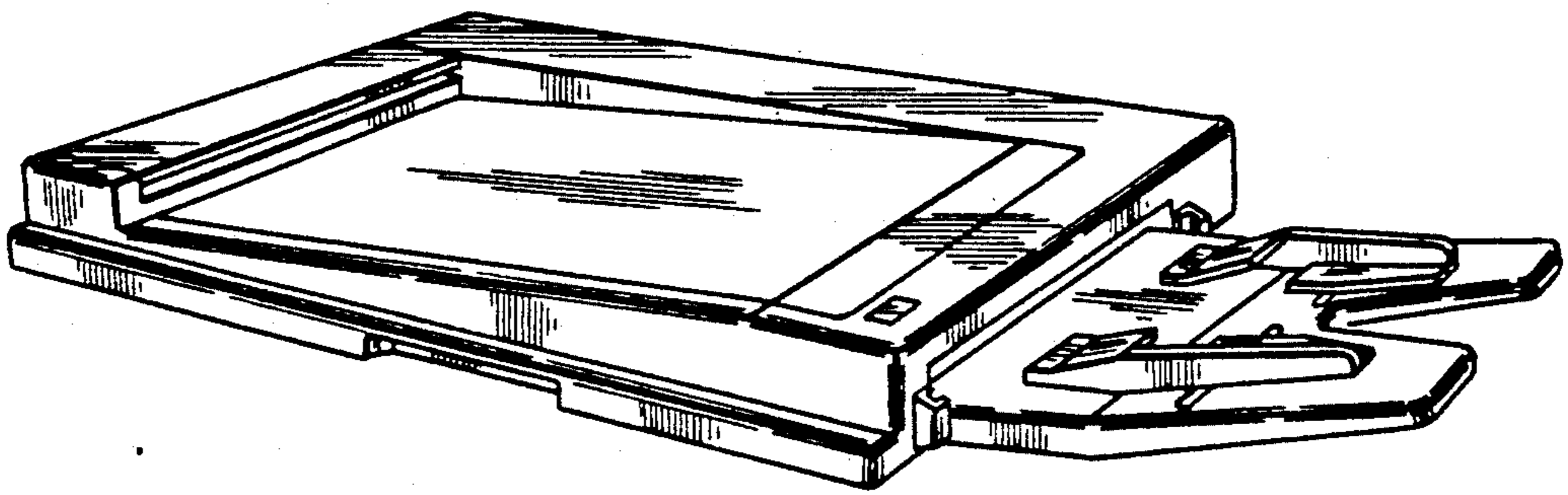


FIG. 2



FIG. 3

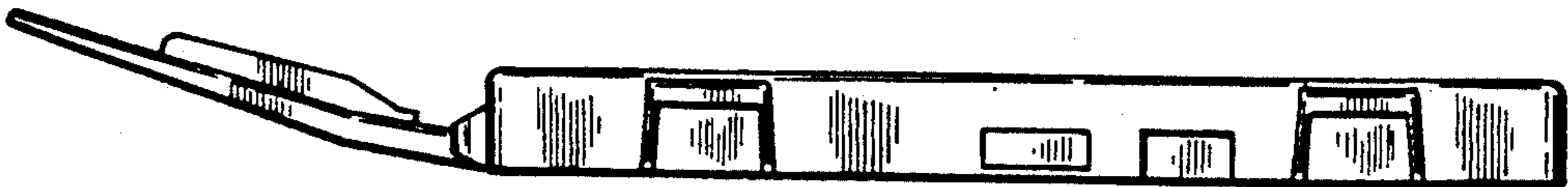


FIG. 4

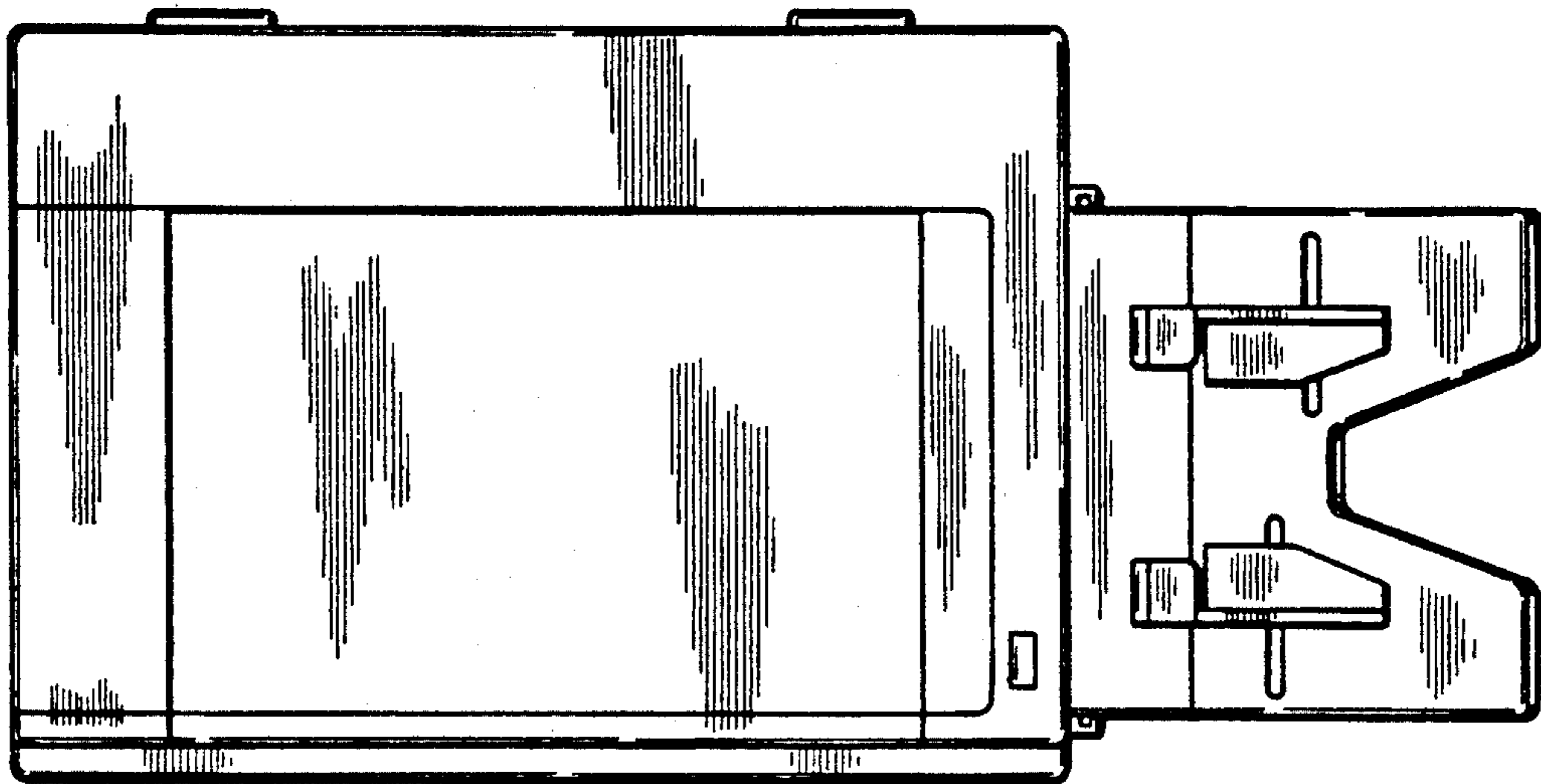
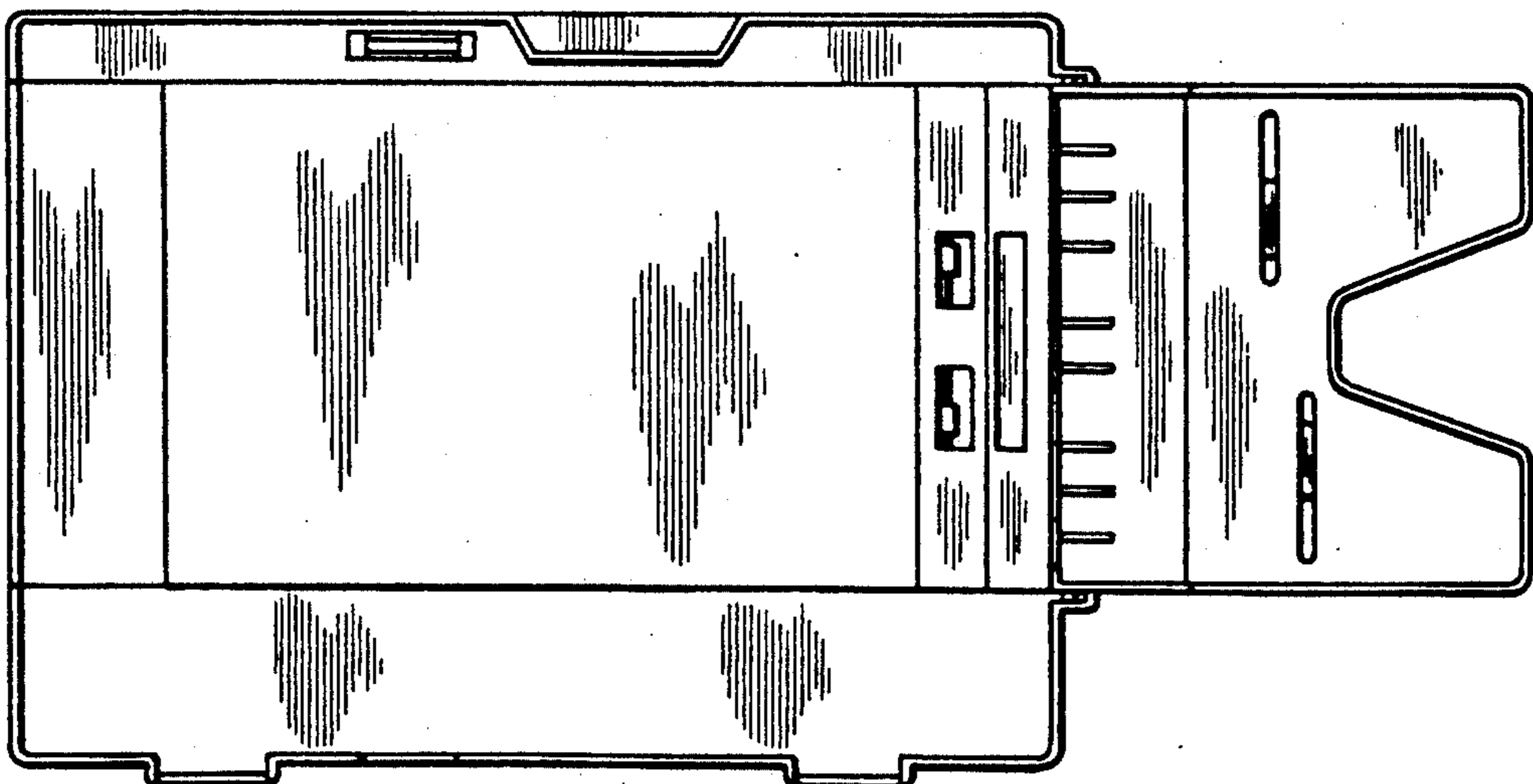
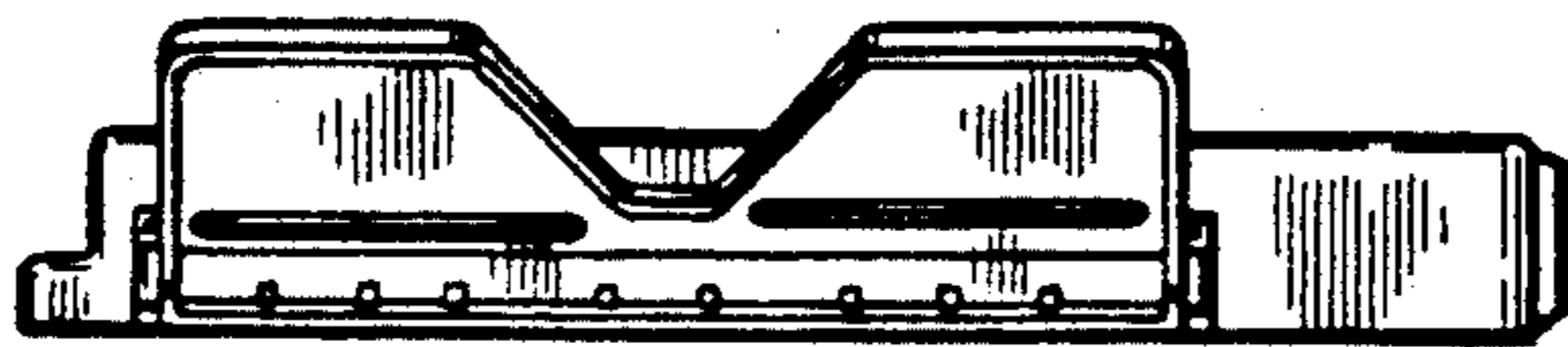


FIG. 5



*FIG. 6*



*FIG. 7*

