



US00D714173S

(12) **United States Design Patent**  
**Chipchase**

(10) **Patent No.:** **US D714,173 S**

(45) **Date of Patent:** **\*\* Sep. 30, 2014**

(54) **DIESEL SMOKE OPACIMETER**

(56) **References Cited**

(71) Applicant: **Kane International Limited**, Welwyn  
Garden City (GB)

U.S. PATENT DOCUMENTS

7,253,413 B2 \* 8/2007 Sauer et al. .... 250/339.13

(72) Inventor: **Alan Trevor Chipchase**, Welwyn  
Garden City (GB)

\* cited by examiner

(73) Assignee: **Kane International Limited**, Welwyn  
Garden (GB)

*Primary Examiner* — Antoine D Davis

(74) *Attorney, Agent, or Firm* — Epstein Drangel LLP;  
Robert L. Epstein

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/460,493**

(57) **CLAIM**

The ornamental design for a diesel smoke opacimeter, as  
shown and described.

(22) Filed: **Jul. 11, 2013**

(30) **Foreign Application Priority Data**

**DESCRIPTION**

Jul. 5, 2013 (EM) ..... 002269563-0002

(51) **LOC (10) Cl.** ..... **10-04**

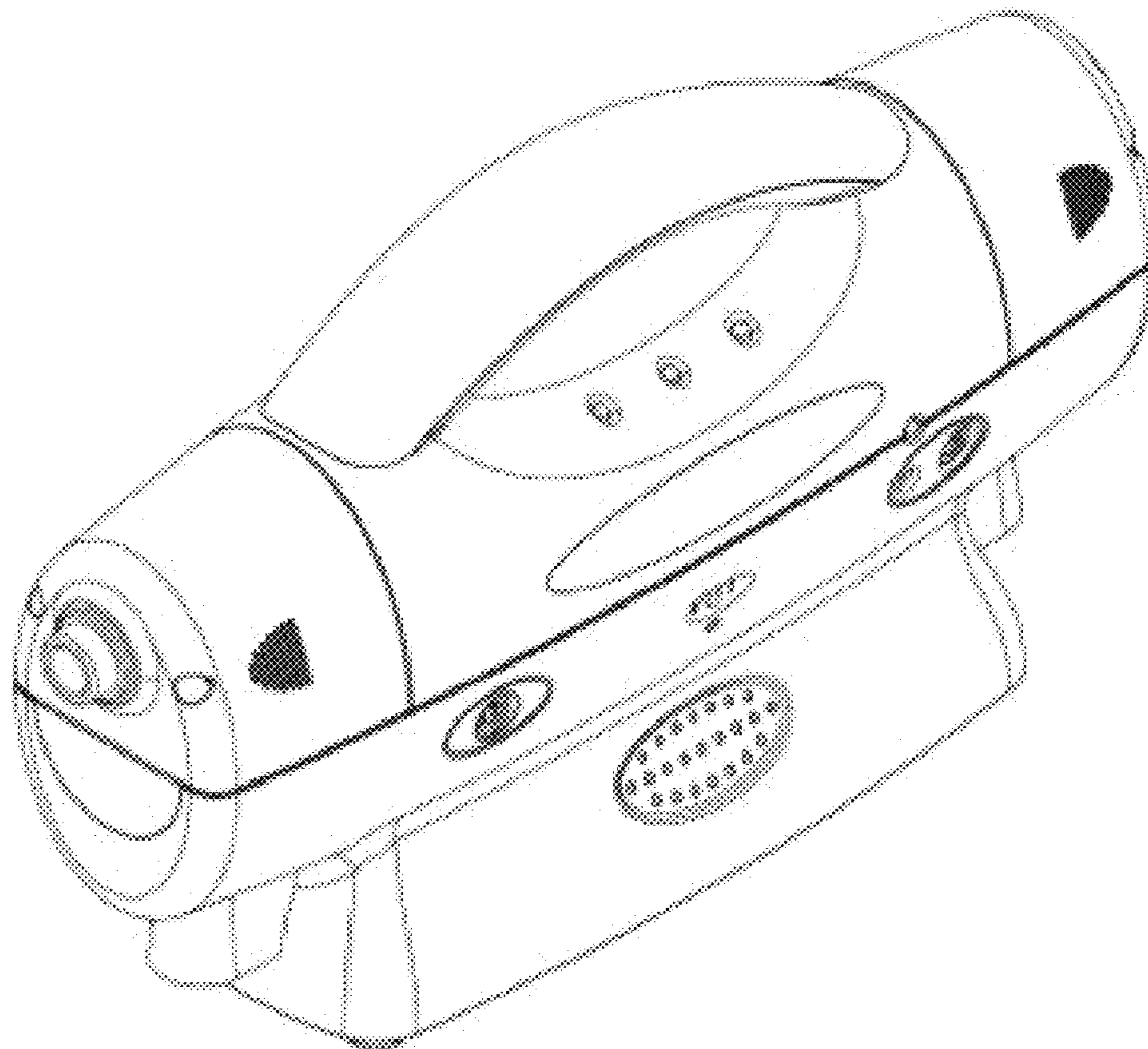
(52) **U.S. Cl.**  
USPC ..... **D10/81**

(58) **Field of Classification Search**  
CPC ..... G01N 21/3504; G01N 2021/3595;  
G01N 21/76; G01N 21/09  
USPC ..... D10/78, 81; 250/206, 239, 573, 574;  
356/73, 244, 437-442

FIG. 1 is an isometric view showing the top, front and left-  
side of my invention;  
FIG. 2 is a front elevation view of my invention;  
FIG. 3 is a back elevation view of my invention;  
FIG. 4 is a top elevation view of my invention;  
FIG. 5 is a bottom elevation view of my invention; and,  
FIG. 6 is a right-side elevation view of my invention.

See application file for complete search history.

**1 Claim, 6 Drawing Sheets**



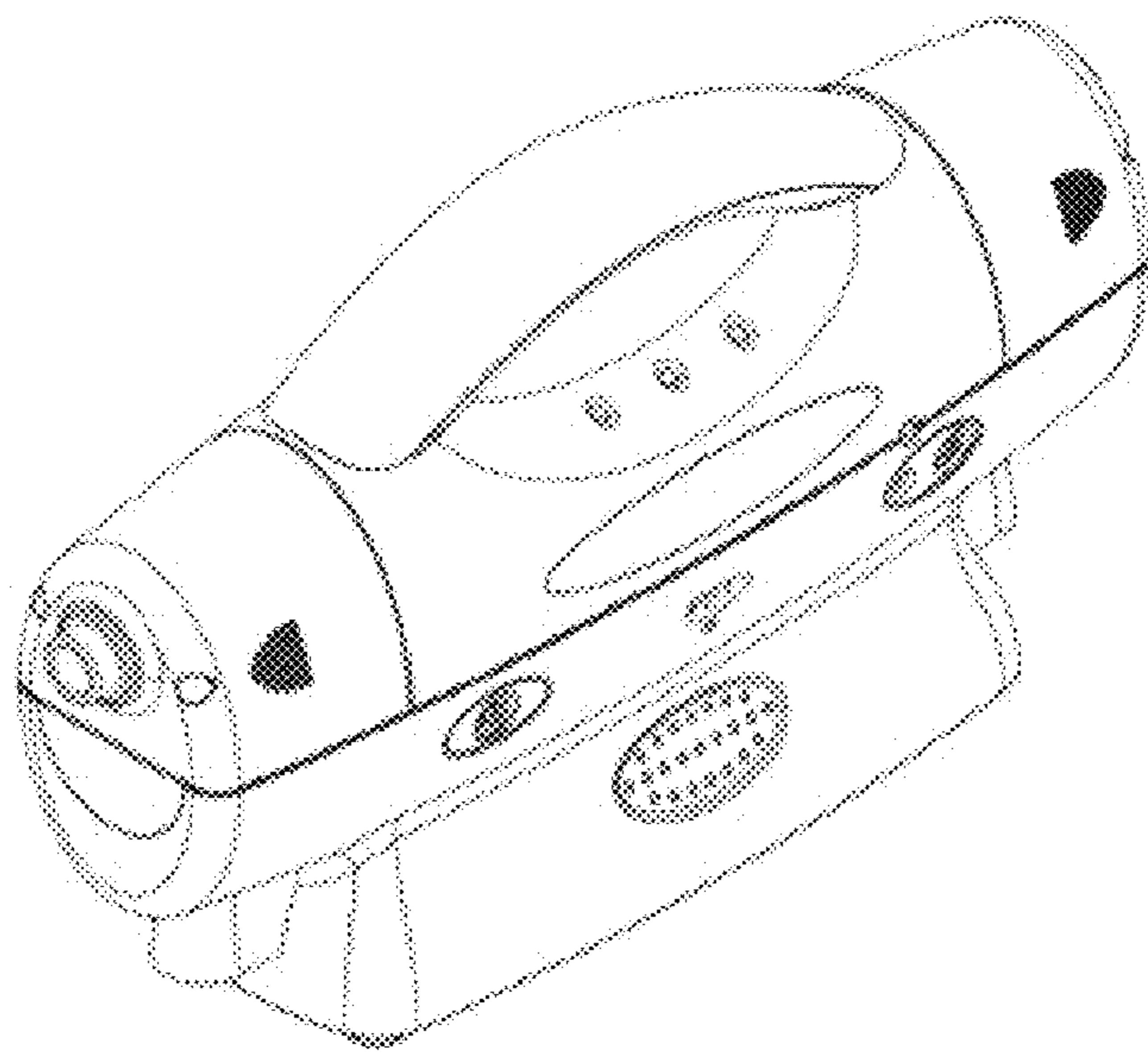


Fig. 1

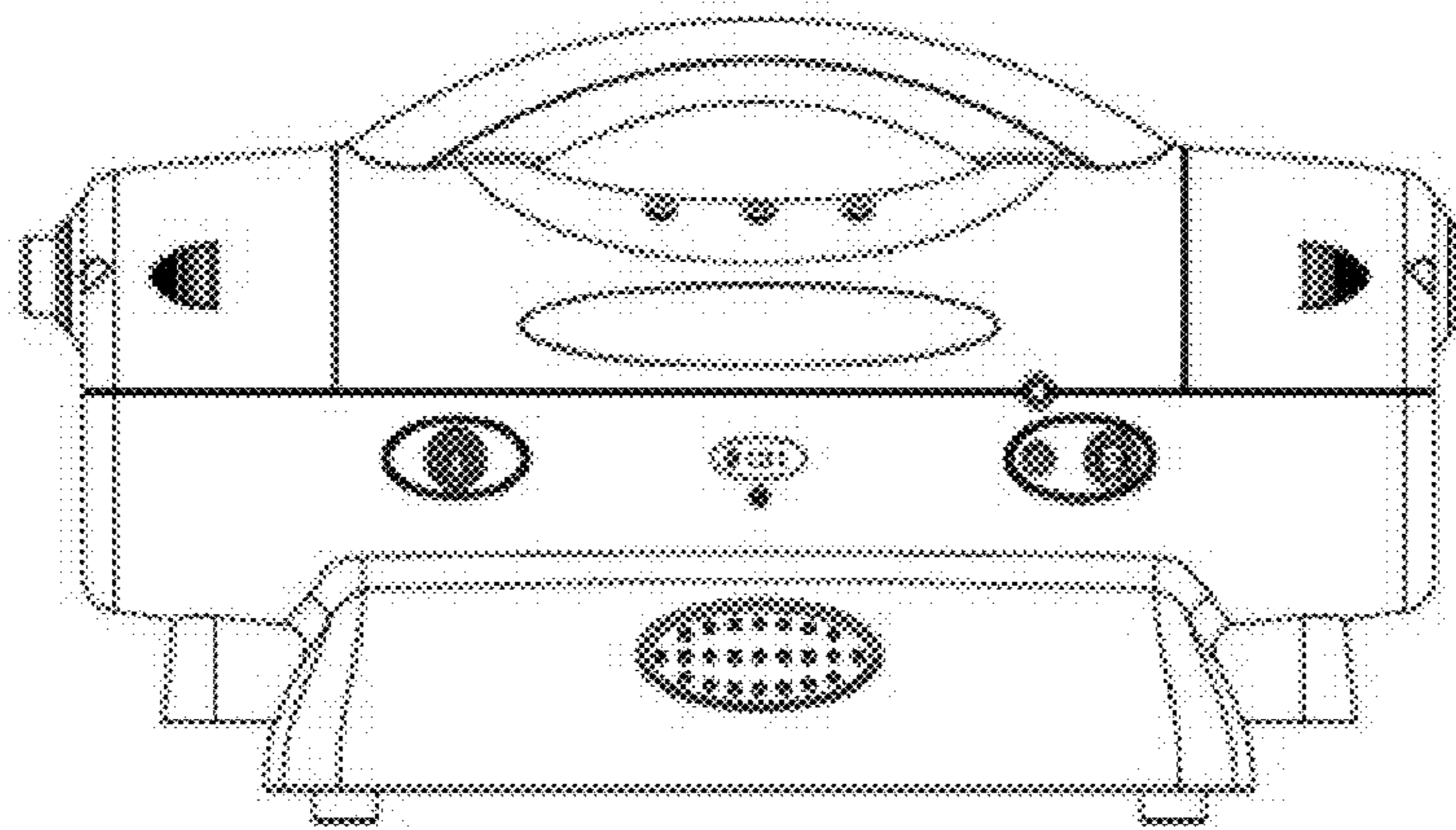


Fig. 2

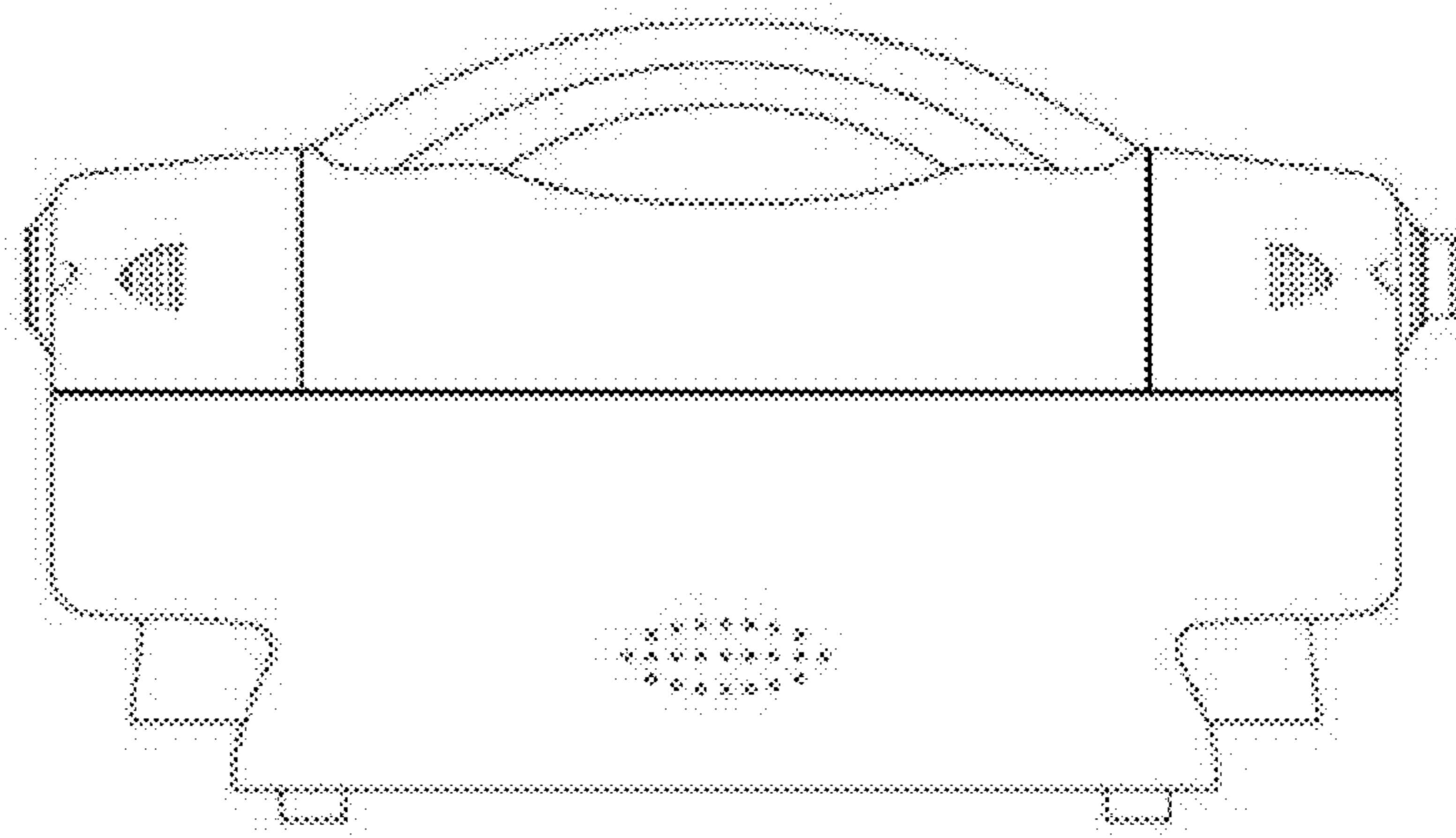


Fig. 3

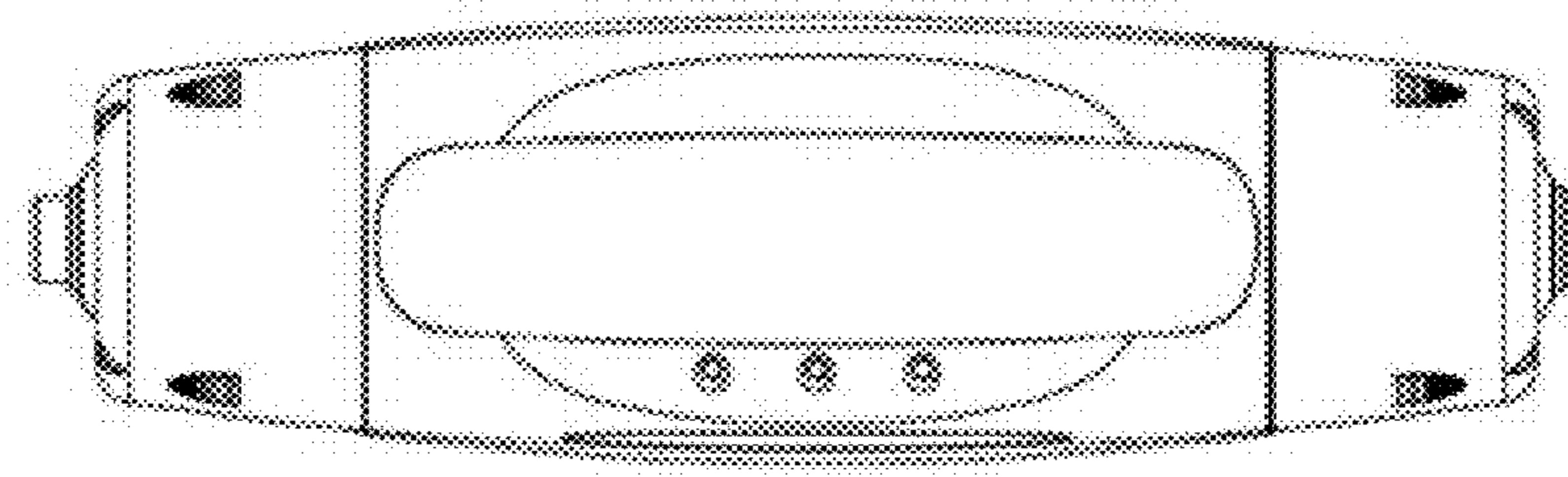


Fig. 4

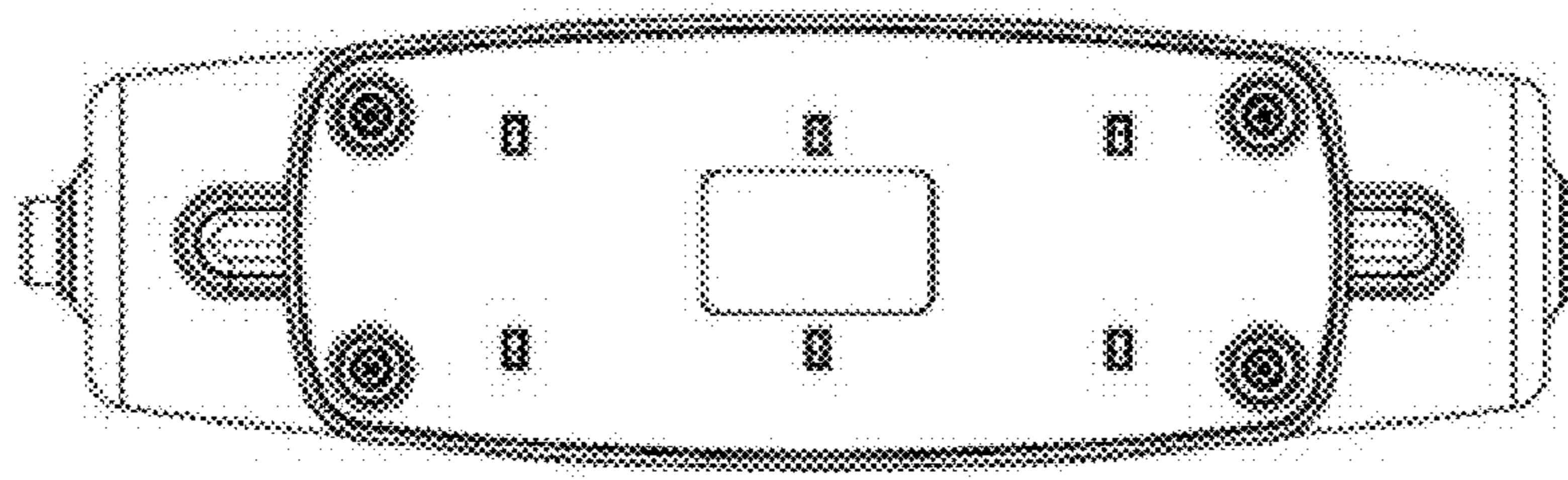


Fig. 5

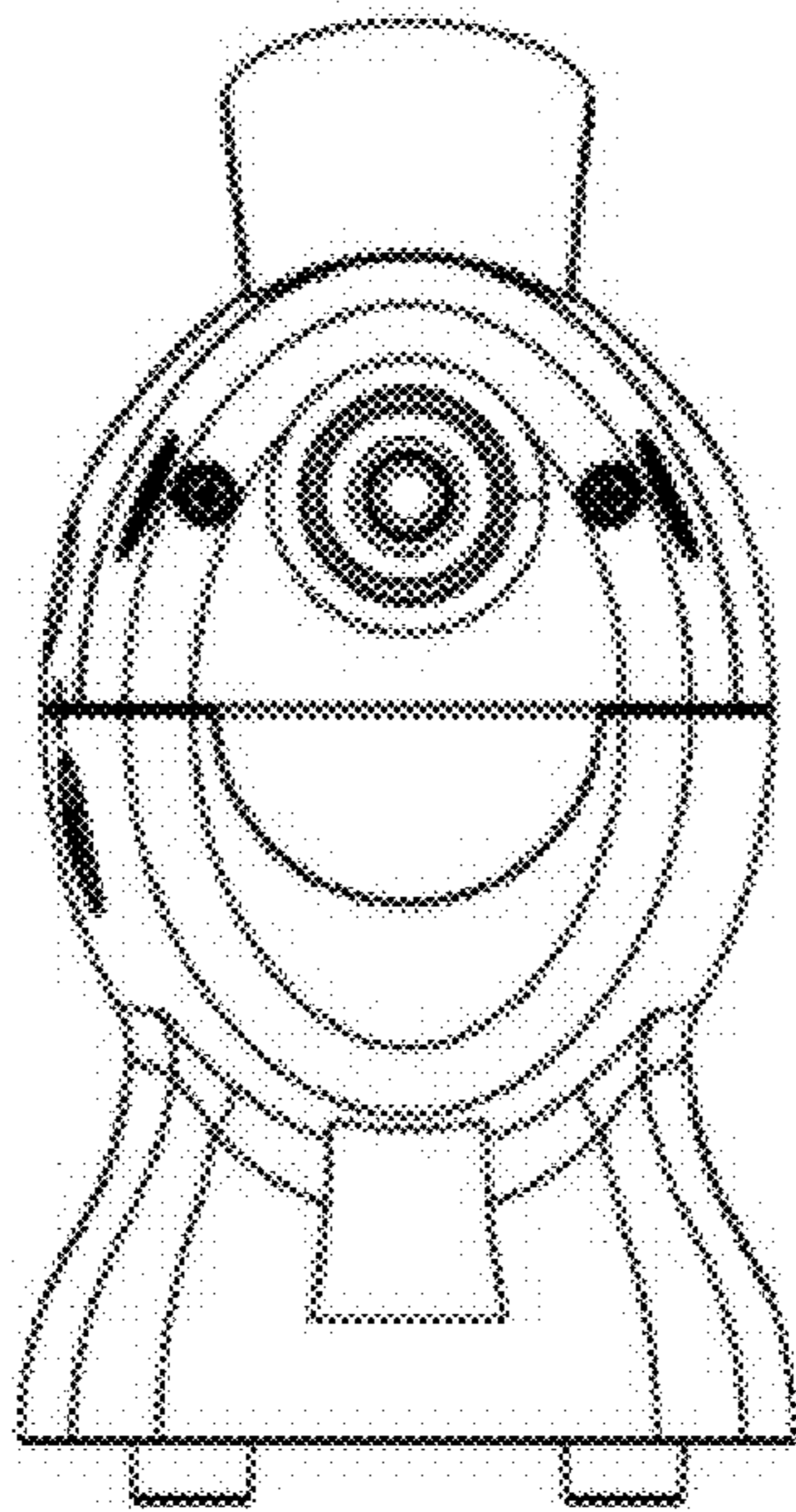


Fig. 6