



US00D955442S

(12) **United States Design Patent**
Gilley et al.

(10) **Patent No.:** **US D955,442 S**
(45) **Date of Patent:** **** Jun. 21, 2022**

(54) **VACUUM PUMP**

(71) Applicant: **Fieldpiece Instruments, Inc.**, Orange, CA (US)

(72) Inventors: **Jason Corbett Gilley**, Orange, CA (US); **Tinggui Hong**, Orange, CA (US)

(73) Assignee: **Fieldpiece Instruments, Inc.**, Orange, CA (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/758,587**

(22) Filed: **Nov. 17, 2020**

(51) **LOC (13) Cl.** **15-02**

(52) **U.S. Cl.**
USPC **D15/7**

(58) **Field of Classification Search**
USPC D23/206, 318, 319, 322, 387, 421, 499;
D15/7-9; D13/107, 112, 184; D3/276,
D3/905
CPC F04B 53/14; F04B 53/92; F04B 17/03;
F04B 17/046; F04B 17/048; F04B 35/04;
F04B 43/04; F04B 43/043; F04B
2203/0208; F04C 2220/10; F04C
2210/128; F04C 2210/147; F04C
2210/208; F04D 13/06; F04D 15/0088;
F04D 15/0066; F04D 15/0245; F04D
29/041; F04D 29/22; F04D 29/60; F04D
29/605

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D164,289 S * 8/1951 DeVry D14/196
D172,734 S * 7/1954 Wilson D14/196
D239,135 S * 3/1976 Sugihar D14/134
D263,958 S * 4/1982 Pelly D15/7
D354,753 S * 1/1995 Turner, III D15/7
D361,659 S * 8/1995 Kahl D3/260

D375,311 S * 11/1996 Keseling D14/168
D429,736 S * 8/2000 Flynn D15/7
D494,925 S * 8/2004 Krieger D13/107
D503,147 S * 3/2005 Krieger D13/107

(Continued)

OTHER PUBLICATIONS

Fieldpiece, VP67—Dual Stage, 6 CFM Vacuum Pump, (first available Jul. 15, 2021), Amazon.com, URL:<<https://www.amazon.com/Fieldpiece-VP67-Dual-Stage-Vacuum/dp/B099JKH31V>> (Year: 2021).*

(Continued)

Primary Examiner — Calvin E Vansant

Assistant Examiner — Mark T. Philipps

(74) *Attorney, Agent, or Firm* — Paul J. Backofen, Esq.

(57) **CLAIM**

The ornamental design for a vacuum pump, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a front-right perspective view of a vacuum pump showing our new design.

FIG. 2 is a front elevation view thereof.

FIG. 3 is a back elevation view thereof.

FIG. 4 is a top plan view thereof.

FIG. 5 is a bottom plan view thereof.

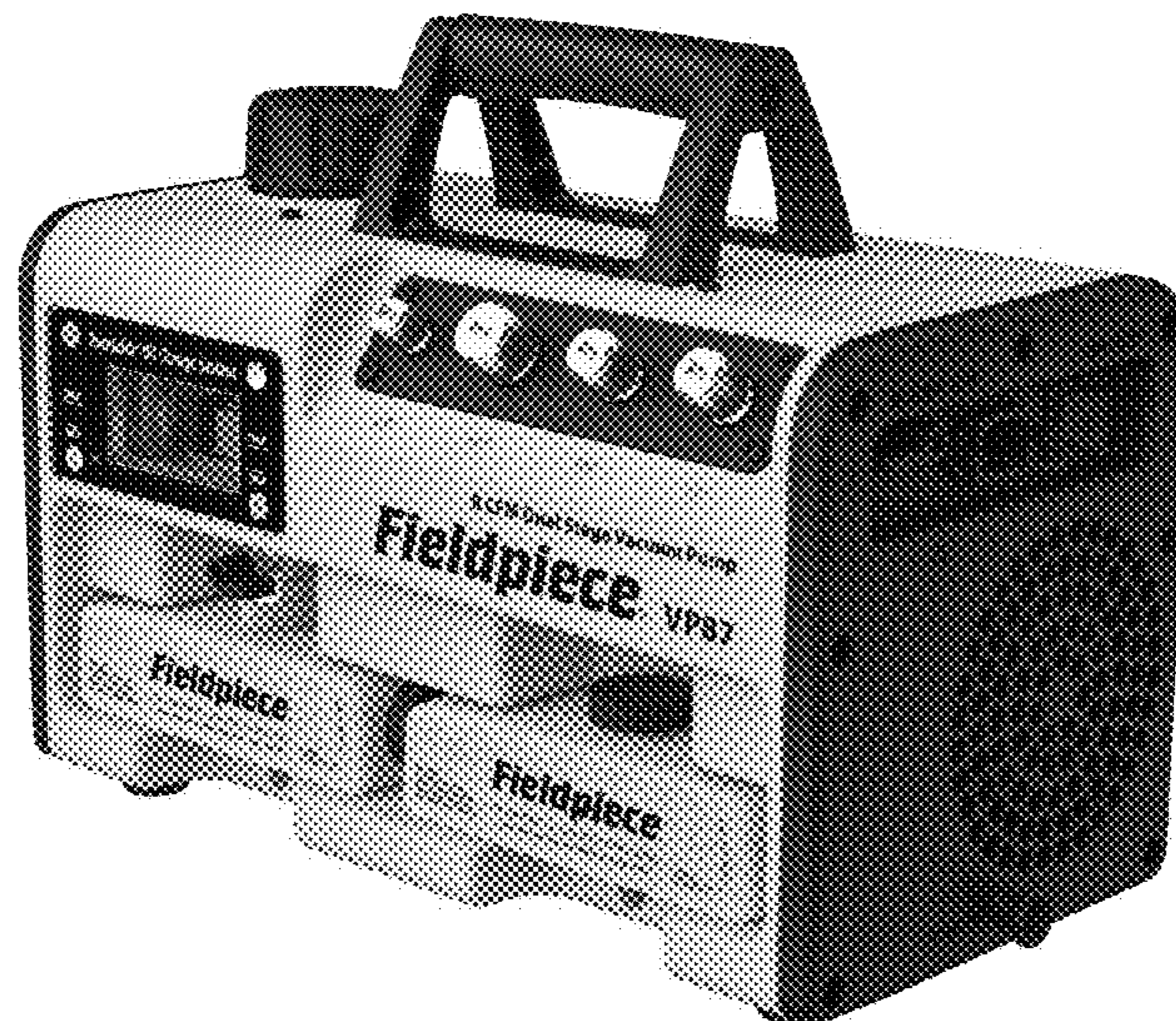
FIG. 6 is a left elevation view thereof.

FIG. 7 is a right elevation view thereof; and,

FIG. 8 is a back-left perspective view thereof.

The broken lines in the drawings depict portions of the vacuum pump that form no part of the claim. All interior elements visible within the areas bound by the broken lines form no part of the claimed design.

1 Claim, 6 Drawing Sheets
(6 of 6 Drawing Sheet(s) Filed in Color)



(56)

References Cited

U.S. PATENT DOCUMENTS

D506,723 S * 6/2005 Krieger D13/107
D536,711 S * 2/2007 Sundheim D15/79
D588,810 S * 3/2009 Rowlett D3/291
D611,074 S * 3/2010 Bashore D15/144
D649,600 S * 11/2011 Opsahl
D705,818 S * 5/2014 Chen D15/7
D745,569 S * 12/2015 Robinson D15/7
D880,530 S * 4/2020 Hughes D15/7
D890,815 S * 7/2020 Hughes D15/7
D914,071 S * 3/2021 Dekker D15/144
2018/0216860 A1 * 8/2018 Hong F25B 45/00

OTHER PUBLICATIONS

Fieldpiece, MR45 Recovery Machine, (first available Jan. 20, 2017), Amazon.com, URL:<<https://www.amazon.com/Fieldpiece-MR45-Recovery-Machine/dp/B01MUCSQO5>> (Year: 2017).*

Appion, G5TWIN—Refrigerant Recovery Machine, (site visited Dec. 2, 2021), Appion Tools Website, URL:<<https://appiontools.com/g5twin/>> (Year: 2021).*

* cited by examiner

Fig. 1



Fig. 2

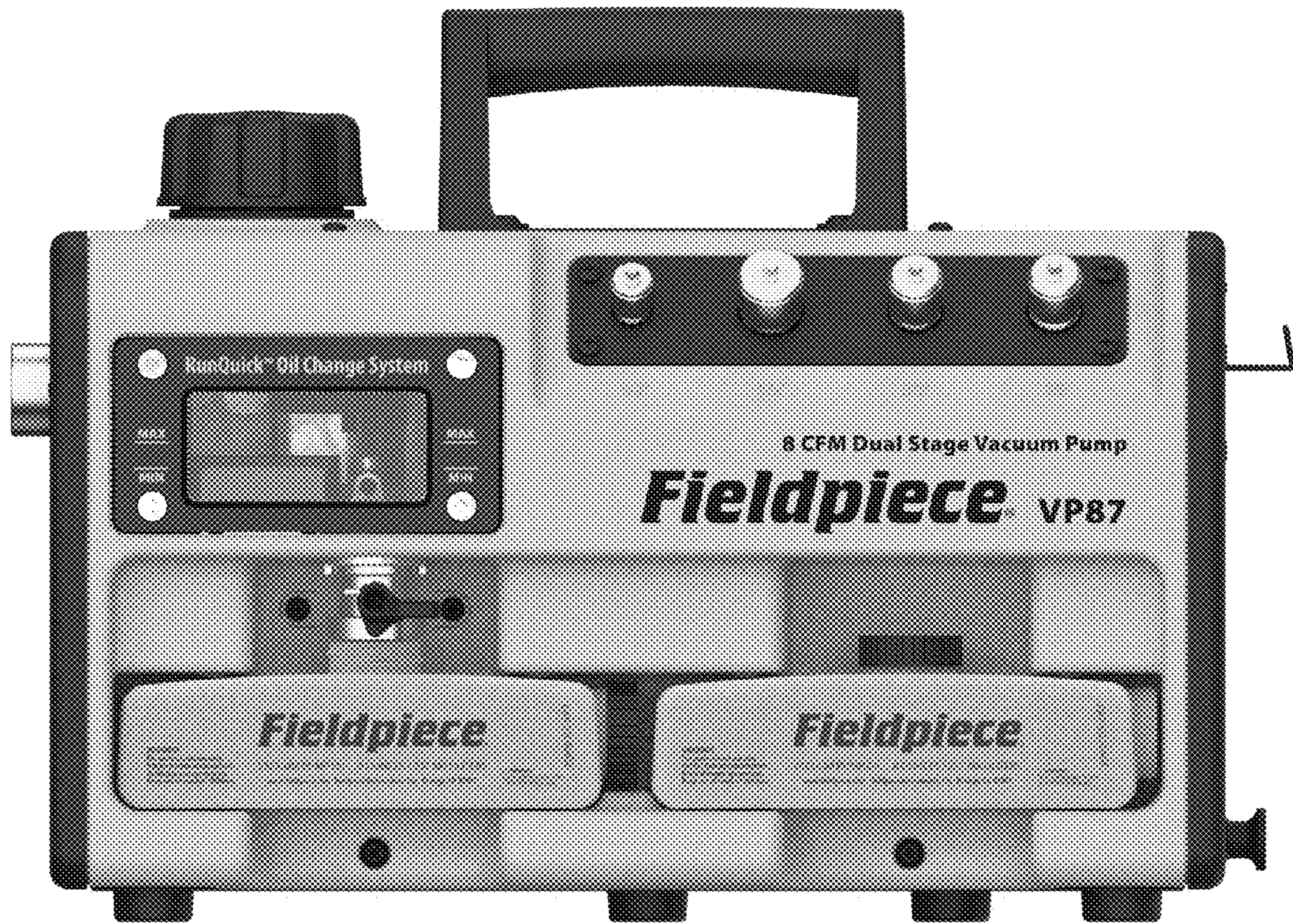


Fig. 3



Fig. 4

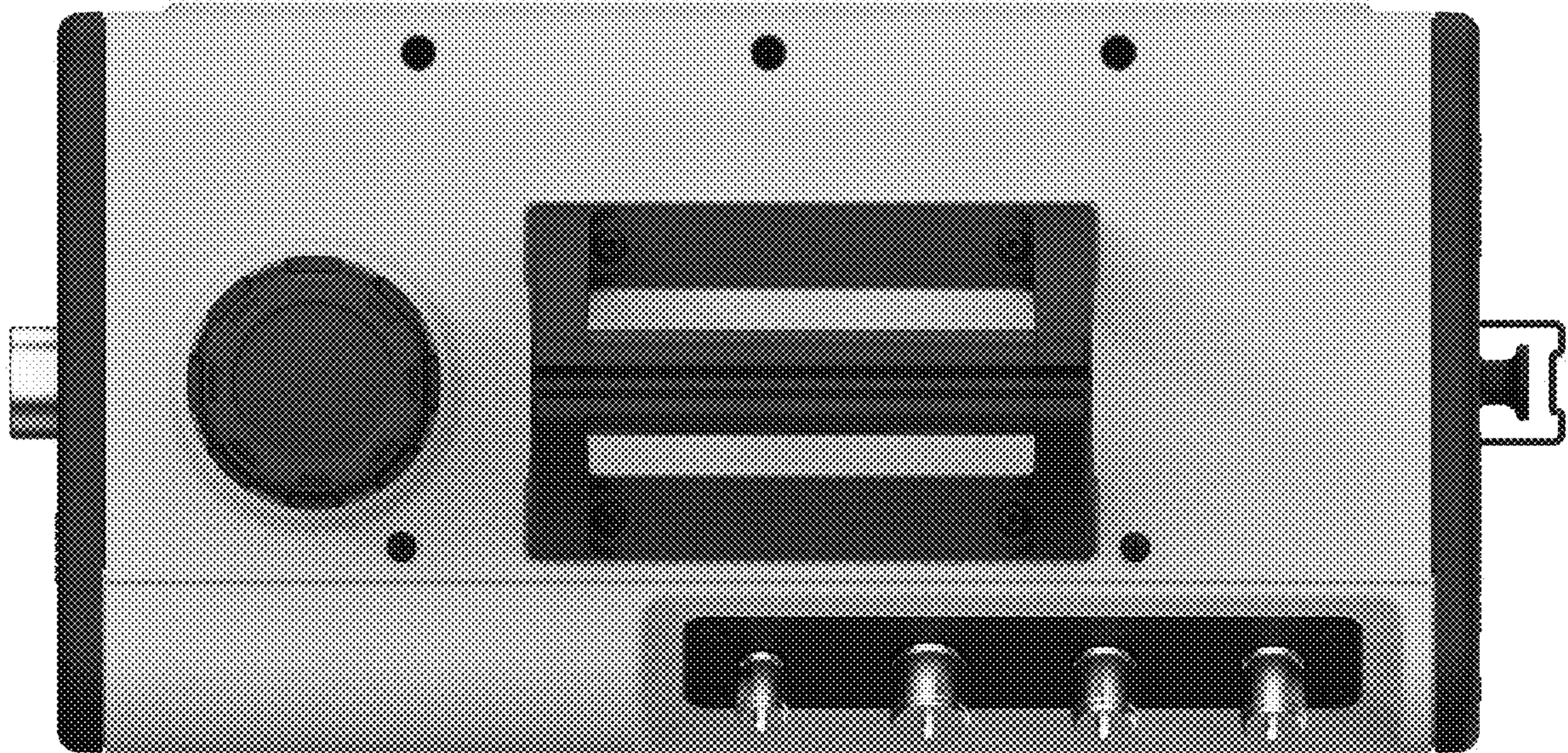


Fig. 5



Fig. 6



Fig. 7

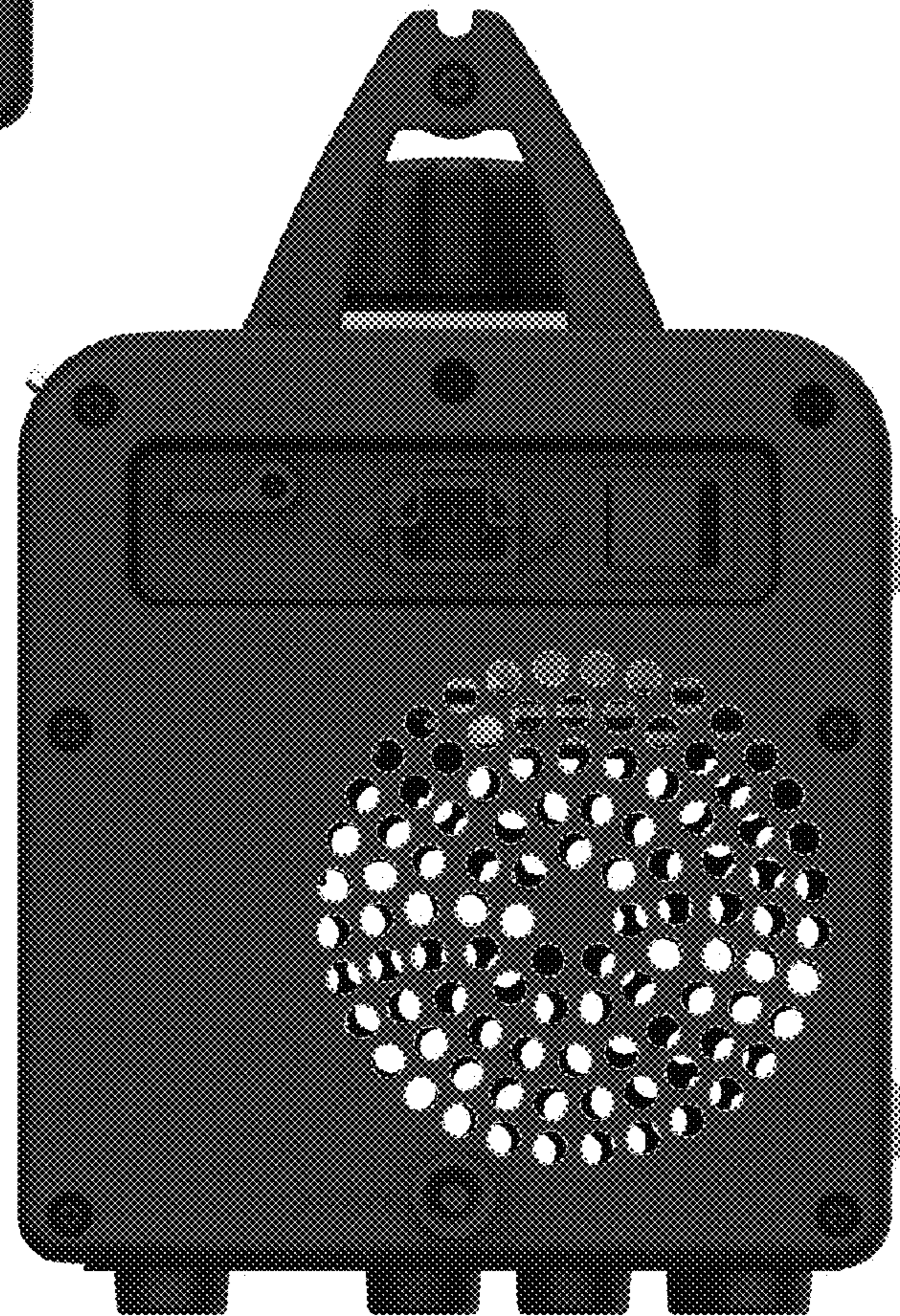


Fig. 8

