



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

(10) **Patent No.:** **US D1,060,433 S**  
(45) **Date of Patent:** **\*\* Feb. 4, 2025**

(54) **MULTIFUNCTIONAL AIR PUMP**

(71) Applicant: **Dongguan Lingdu Industrial Co., Ltd.**, Guangdong (CN)

(72) Inventor: **Nian Chen**, Guangdong (CN)

(73) Assignee: **Dongguan Lingdu Industrial Co., Ltd.**, Dongguan (CN)

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

(21) Appl. No.: **29/905,778**

(22) Filed: **Oct. 25, 2023**

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

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

(58) **Field of Classification Search**  
USPC ..... D13/107; D15/7, 8, 9  
CPC ..... F04B 33/00; F04B 33/005; F04B 1/005;  
F04D 29/582; F04D 25/0673; F04D  
13/06  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D881,946	S	*	4/2020	Richey	.....	D15/7
D1,021,964	S	*	4/2024	Huang	.....	D15/7
D1,023,063	S	*	4/2024	Mao	.....	D15/7
D1,026,041	S	*	5/2024	Chen	.....	D15/7
D1,028,021	S	*	5/2024	Lin	.....	D15/7
D1,033,485	S	*	7/2024	Deng	.....	D15/7
D1,041,513	S	*	9/2024	Wu	.....	D15/7
D1,042,551	S	*	9/2024	Zhou	.....	D15/7
D1,046,923	S	*	10/2024	Li	.....	D15/7

**OTHER PUBLICATIONS**

Portable Air Compressor, available in Amazon.com, Jan. 17, 2024 [online], [site visited Oct. 16, 2024], Available from the internet URL: [https://www.amazon.com/Inflator-Portable-Compressor-160-Gauge-Motorcycle/dp/B0D9LNHKML/ref=sr\\_1\\_4?crd=29SD2M1JU4G30&dib=eyJ2ljojMSJ9.f41JaOCHiX-m-FX1o9p4875rKg](https://www.amazon.com/Inflator-Portable-Compressor-160-Gauge-Motorcycle/dp/B0D9LNHKML/ref=sr_1_4?crd=29SD2M1JU4G30&dib=eyJ2ljojMSJ9.f41JaOCHiX-m-FX1o9p4875rKg) (Year: 2024).\*

Wind Gallop, available in kickstarter.com, announced Year 2024 [online], [site visited Oct. 18, 2024], Internet URL: <https://www.kickstarter.com/projects/1854076860/wind-gallop-all-in-one-inflator-with-brushless-motor/posts/4008342> (Year: 2024).\*

\* cited by examiner

*Primary Examiner* — Calvin E Vansant

*Assistant Examiner* — Eidiol Ghigliotty Torre

(74) *Attorney, Agent, or Firm* — Ricky Lam

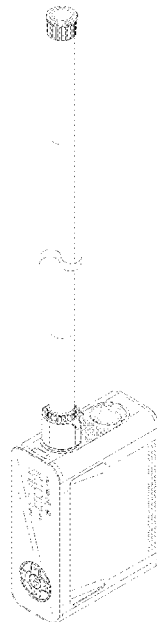
(57) **CLAIM**

The ornamental design for a multifunctional air pump as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top, and left perspective view of a multifunctional air pump showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a top plan view thereof; FIG. 7 is a bottom plan view thereof; and, FIG. 8 is a rear, bottom, and right perspective view thereof. The broken lines shown in the drawings represent portions of the multifunctional air pump that form no part of the claimed design. The multifunctional air pump is shown with a symbolic break in its length. The appearance of any portion of the article between the break lines forms no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



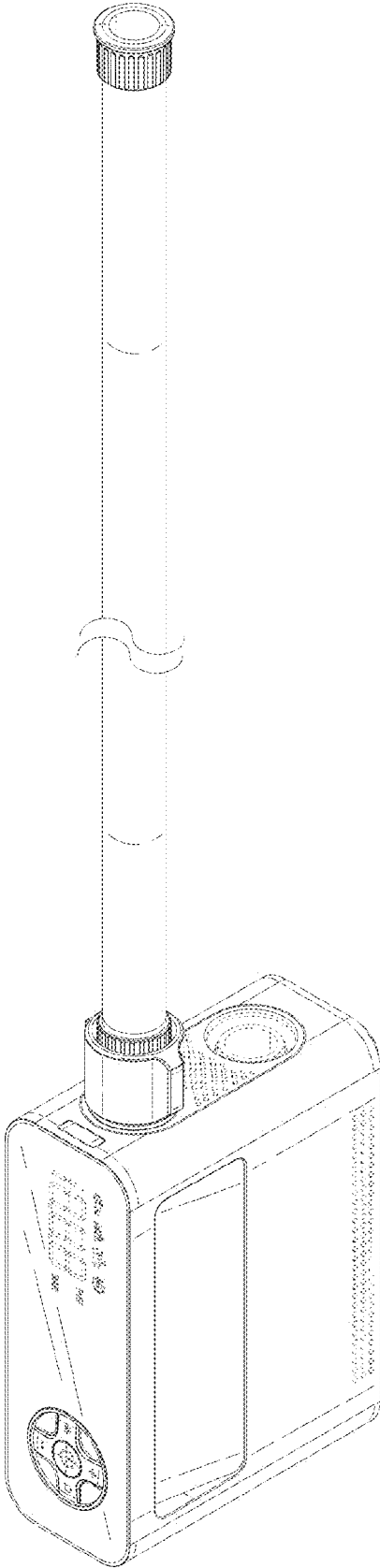


FIG.1

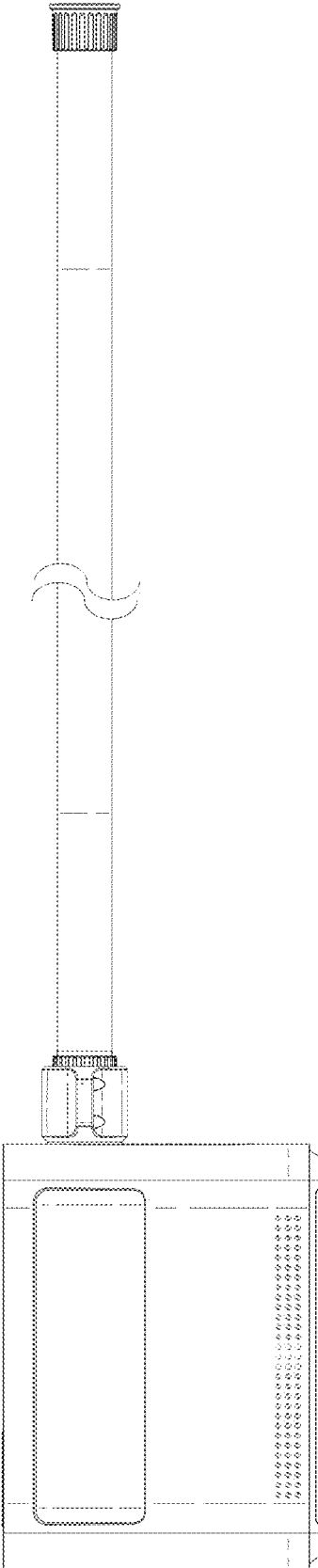


FIG.2

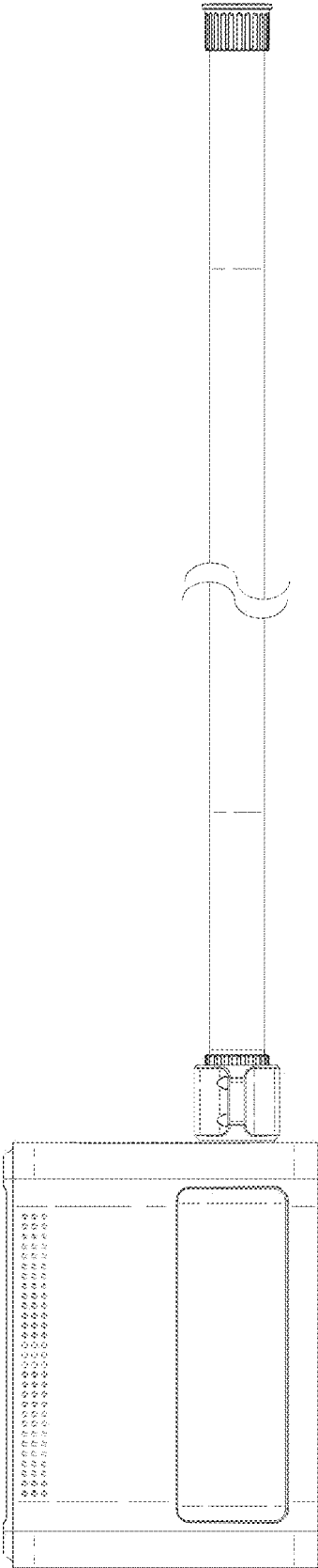


FIG.3

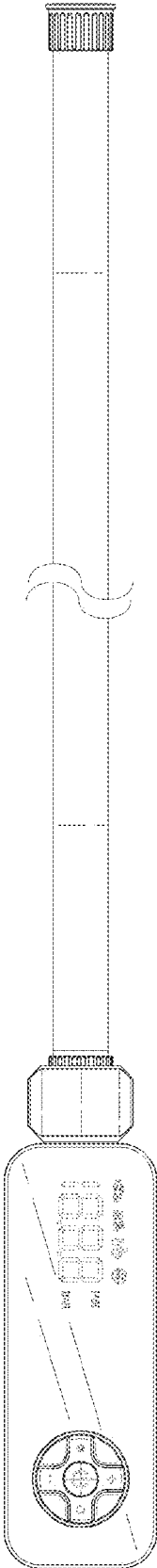


FIG.4

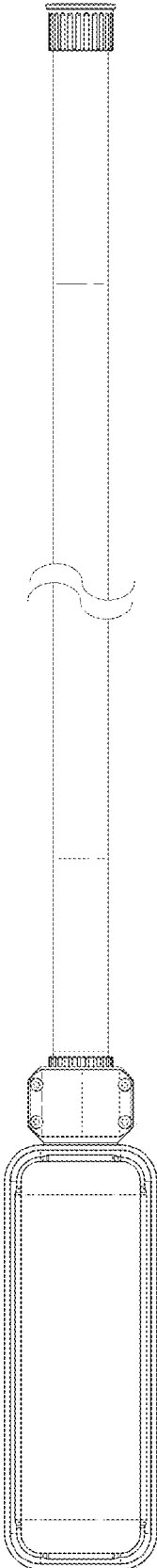


FIG.5

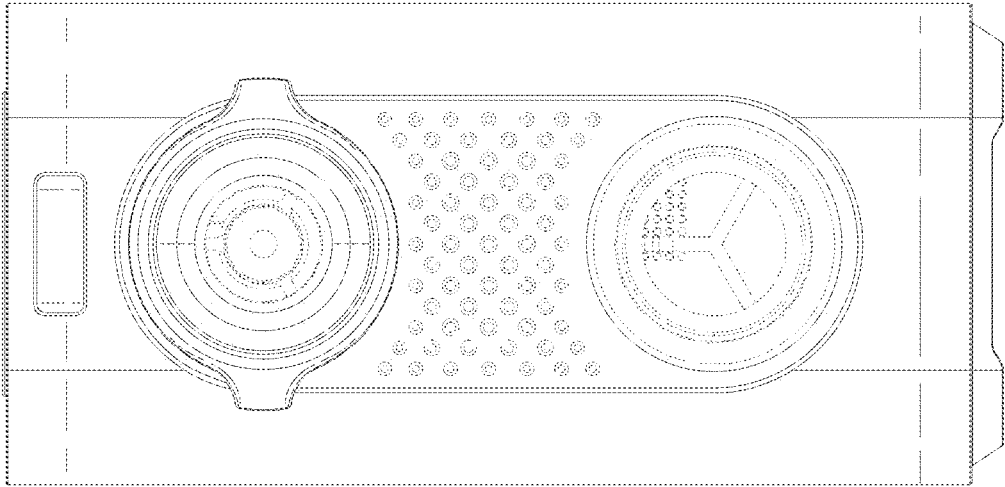


FIG.6

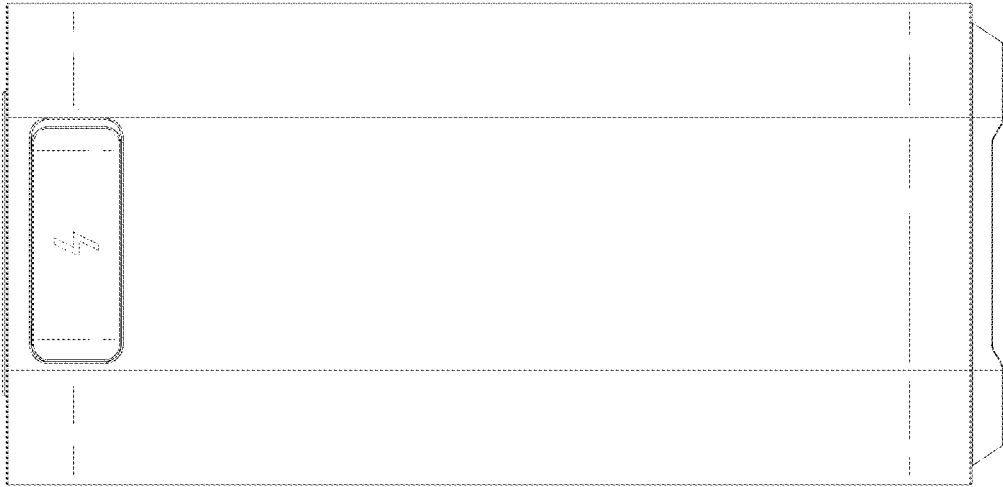


FIG.7

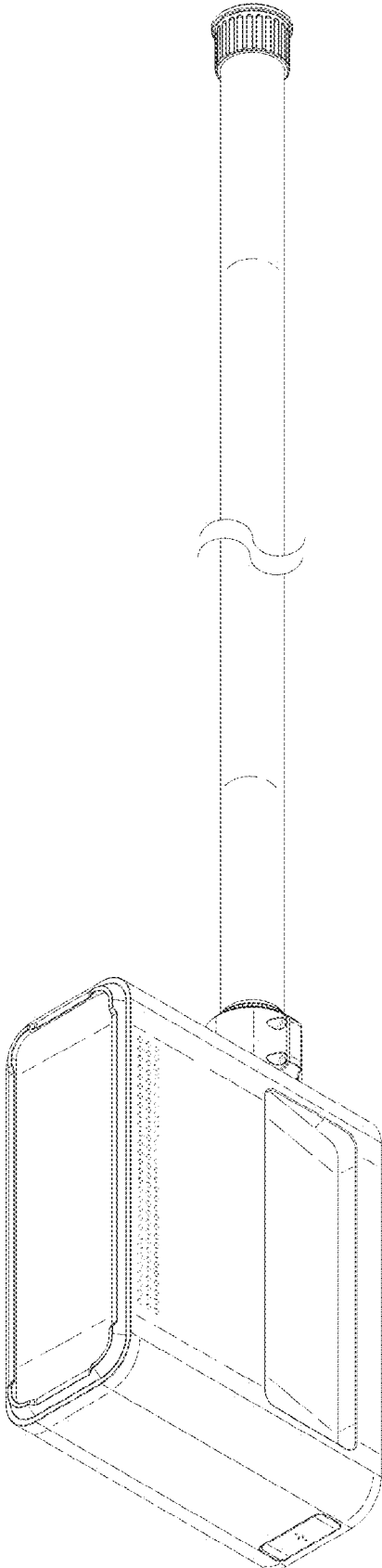


FIG.8