



US0D1027690S

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

(10) **Patent No.:** **US D1,027,690 S**

(45) **Date of Patent:** **** May 21, 2024**

(54) **LIQUID LEVEL DETECTOR
INCORPORATING A FLOAT**

9,582,987 B2 * 2/2017 Eskildsen G01F 23/64
9,593,977 B2 * 3/2017 Mahmoud G01F 23/60
D786,709 S * 5/2017 Pagliarulo B05B 11/1028
D10/101

(71) Applicant: **Chengli Li**, Suzhou (CN)

(Continued)

(72) Inventors: **Tianyang Fu**, Suzhou (CN); **Peng Ji**,
Suzhou (CN)

Primary Examiner — Antoine Duval Davis

(74) *Attorney, Agent, or Firm* — Chen Yoshimura LLP

(73) Assignee: **Chengli Li**, Suzhou (CN)

(57)

CLAIM

The ornamental design for a liquid level detector incorpo-
rating a float, as shown and described.

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

DESCRIPTION

(21) Appl. No.: **29/850,440**

FIG. 1 is a front, bottom and right side perspective view of
a liquid level detector incorporating a float showing a first
embodiment of the new design;

(22) Filed: **Aug. 19, 2022**

FIG. 2 is a front, top and right side perspective view thereof;

(51) **LOC (14) Cl.** **10-04**

FIG. 3 is a front elevational view thereof;

(52) **U.S. Cl.**

FIG. 4 is a rear elevational view thereof;

USPC **D10/101**

FIG. 5 is a left side elevational view thereof;

(58) **Field of Classification Search**

FIG. 6 is a right side elevational view thereof;

USPC D10/101, 103; D23/303

FIG. 7 is a top plan view thereof;

CPC G01F 23/30; G01F 23/306; G01F 23/76

FIG. 8 is a bottom plan view thereof;

See application file for complete search history.

FIG. 9 is a front, bottom and right side perspective view of
a liquid level detector incorporating a float showing a second
embodiment of the new design;

(56) **References Cited**

FIG. 10 is a front, top and right side perspective view
thereof;

U.S. PATENT DOCUMENTS

FIG. 11 is a front elevational view thereof;

D261,114 S * 10/1981 Kask D10/101

FIG. 12 is a rear elevational view thereof;

D399,485 S * 10/1998 McMurren D10/101

FIG. 13 is a left side elevational view thereof;

D413,826 S * 9/1999 Housey D10/101

FIG. 14 is a right side elevational view thereof;

D419,091 S * 1/2000 Pattison D10/101

FIG. 15 is a top plan view thereof; and,

D430,050 S * 8/2000 Housey D10/101

FIG. 16 is a bottom plan view thereof.

D431,483 S * 10/2000 Housey D10/101

The broken lines are included for the purpose of illustrating
portions of the liquid level detector incorporating a float and
form no part of the claimed design. Of the portions that form
no part of the claimed design, an electrical plug portion is
shown in broken lines in the perspective views only.

6,138,509 A * 10/2000 Jaworski G01F 23/0023
73/322.5

7,902,989 B2 * 3/2011 Cox G02B 6/44
250/901

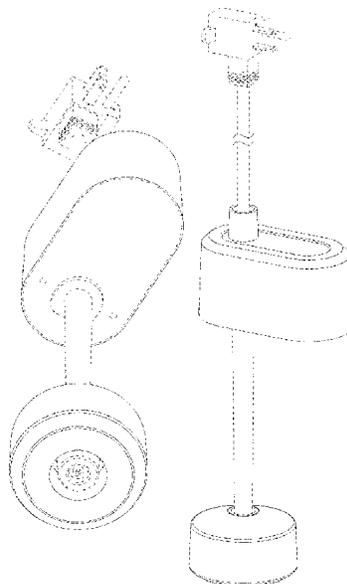
D662,000 S * 6/2012 Ross, Jr. D10/101

D662,001 S * 6/2012 Ross, Jr. D10/101

D668,572 S * 10/2012 Farmanyany D10/101

9,362,072 B2 * 6/2016 Davis H01H 35/186

1 Claim, 14 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D821,238 S * 6/2018 Elmieh D10/101
D885,219 S * 5/2020 Kurani D10/101

* cited by examiner

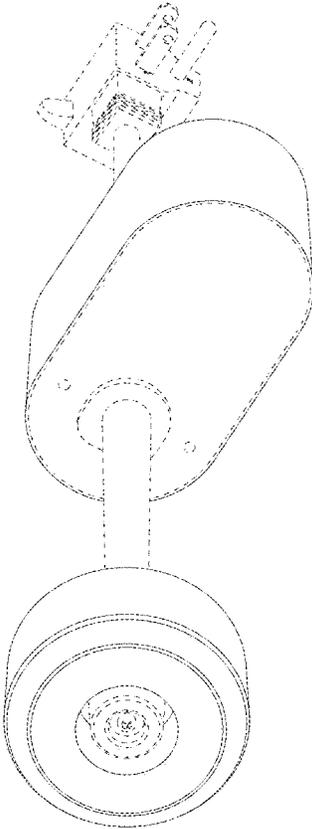


FIG. 1

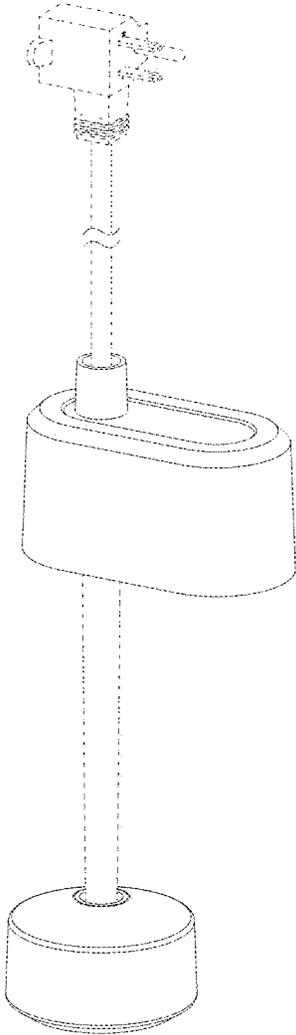


FIG. 2

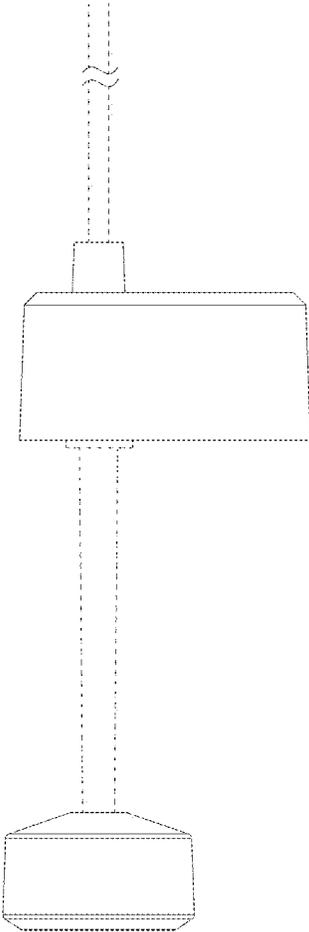


FIG. 3

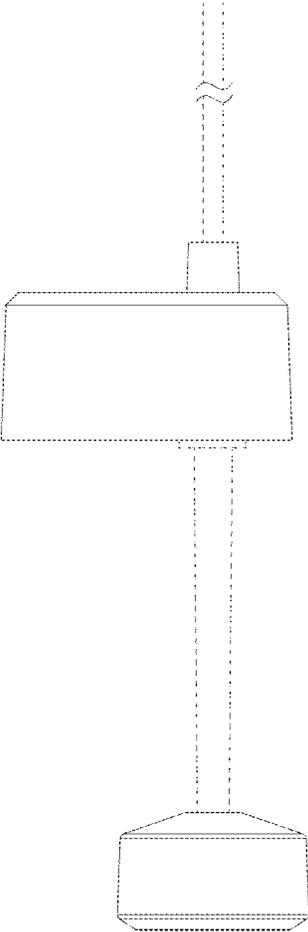


FIG. 4

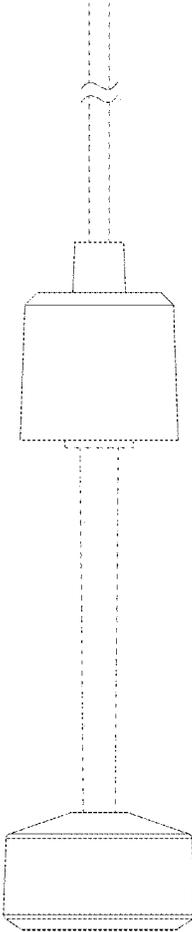


FIG. 5

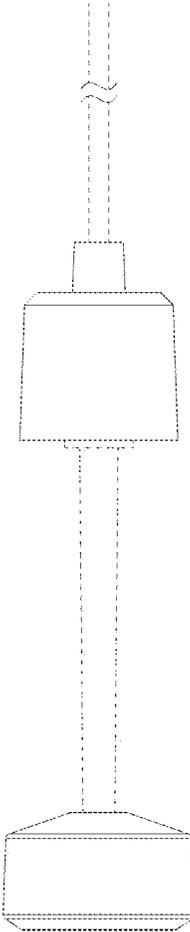


FIG. 6

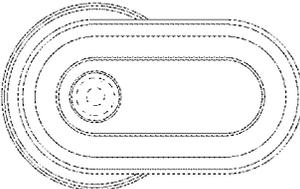


FIG. 7

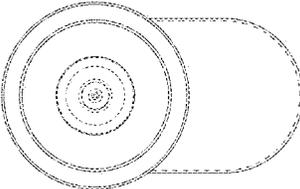


FIG. 8

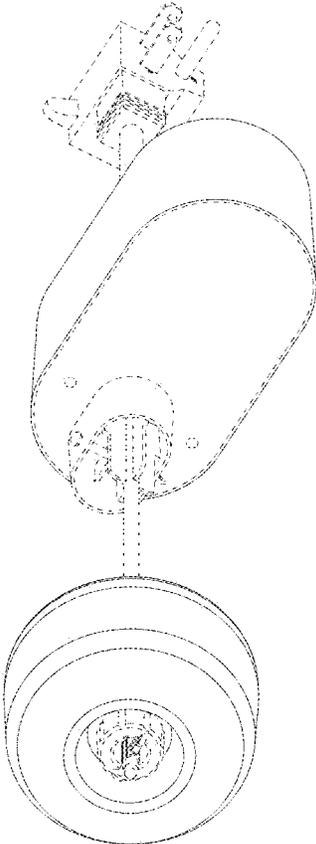


FIG. 9

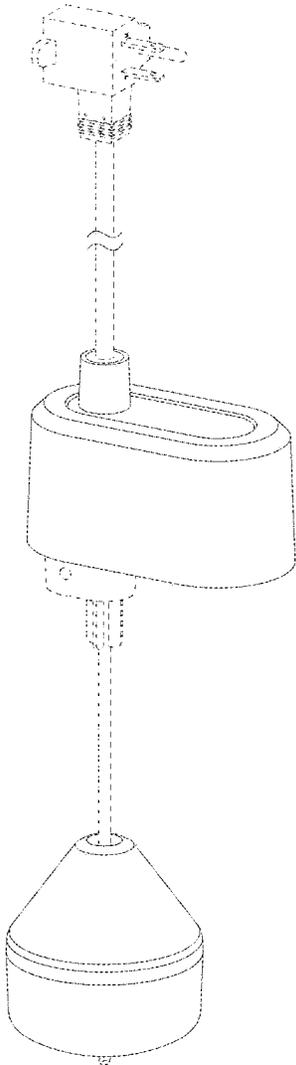


FIG. 10

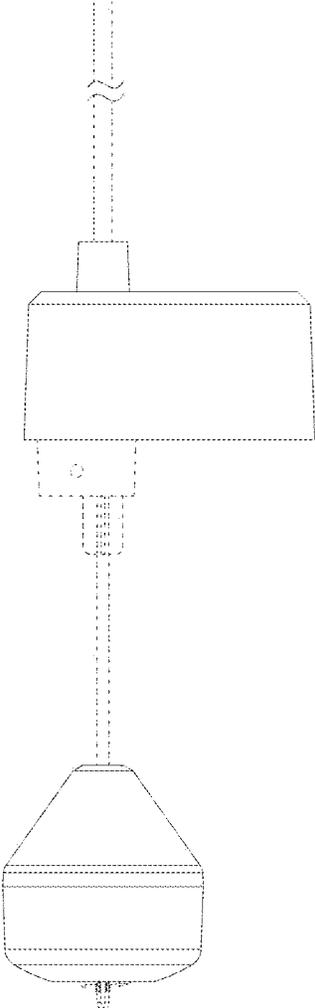


FIG. 11

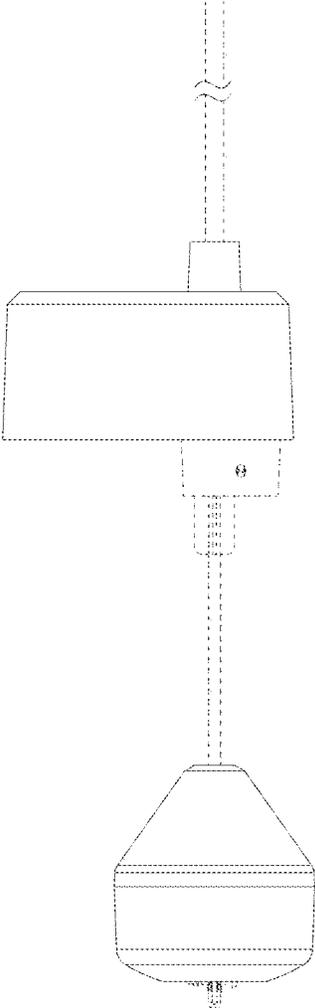


FIG. 12

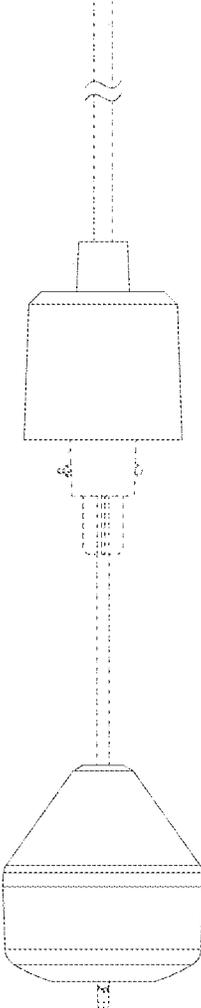


FIG. 13

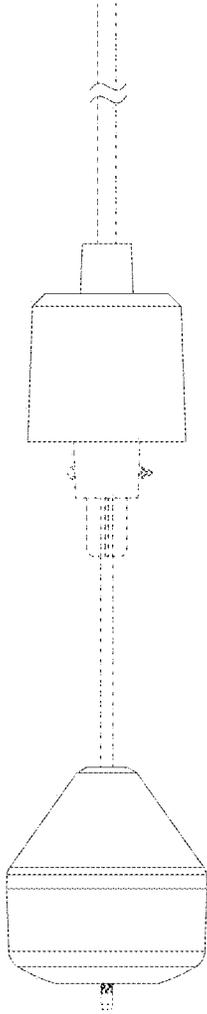


FIG. 14

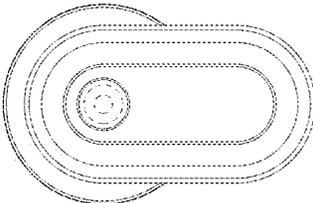


FIG. 15

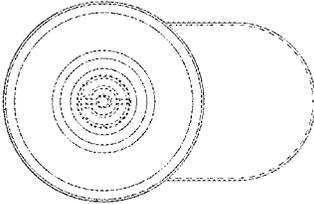


FIG. 16