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(12) **United States Design Patent** (10) **Patent No.:** **US D768,744 S**
Fukunaga et al. (45) **Date of Patent:** **** Oct. 11, 2016**

(54) **CONTROLLING APPARATUS FOR WELDING EQUIPMENT**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/144**

(58) **Field of Classification Search**
USPC D8/29.1, 29.2, 30; D13/123, 133;
D15/122, 138, 144, 144.1, 144.2
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,845,650 A * 7/1989 Meade G07B 1/00
101/66
- 5,023,824 A * 6/1991 Chadima, Jr. G06F 15/0216
235/1 D
- D351,141 S * 10/1994 Van Akkeren D13/168
- 5,530,619 A * 6/1996 Koenck B60R 11/02
235/462.46
- D390,554 S * 2/1998 Larson D14/137
- D641,600 S * 7/2011 Fukuda D8/29.1
- D709,038 S * 7/2014 Takama D13/168

- D714,167 S * 9/2014 Hyllbrant D10/46
- D715,772 S * 10/2014 Kim D14/218
- D715,773 S * 10/2014 Kim D14/218
- D716,269 S * 10/2014 Kim D14/218
- D718,722 S * 12/2014 Asher D13/168
- D720,727 S * 1/2015 Yu D14/225
- D727,428 S * 4/2015 Sagady D20/8
- D737,225 S * 8/2015 Seidl D13/168
- D741,816 S * 10/2015 Kroll D13/168
- D742,858 S * 11/2015 Morisawa D14/218
- D748,065 S * 1/2016 Trochum D13/162
- D751,200 S * 3/2016 LaRose D24/155
- D751,201 S * 3/2016 LaRose D24/155

FOREIGN PATENT DOCUMENTS

JP 2004-122243 4/2004

OTHER PUBLICATIONS

Manabu Nagata, "New Products 'The Arc Welding Robot ARC-MAN-MP' and 'The Type CA Controlle'", Jun. 2005, 3 pages.

* cited by examiner

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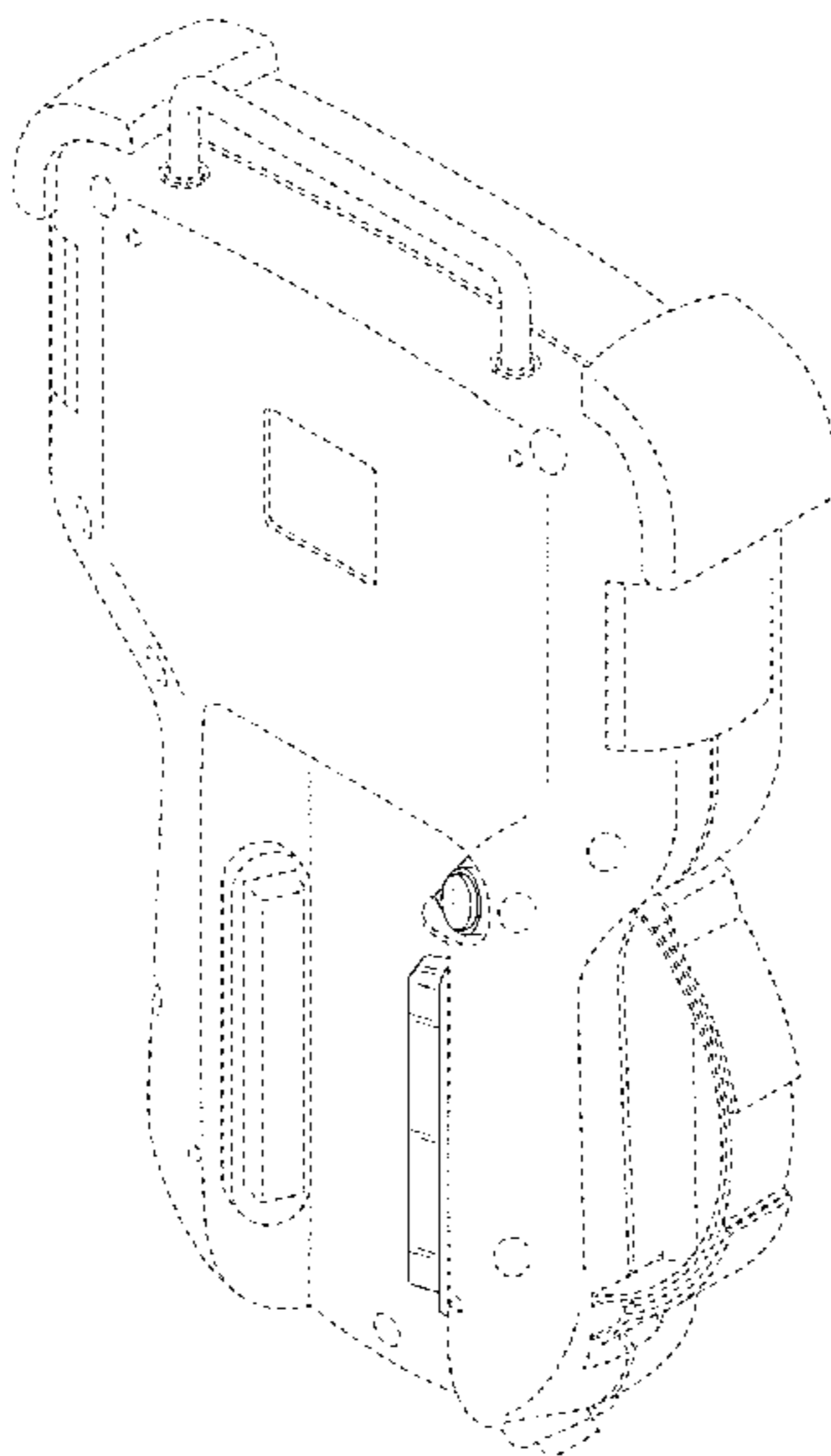
(57) **CLAIM**

The ornamental design for a controlling apparatus for welding equipment, as shown and described.

DESCRIPTION

FIG. 1 is a rear, top, and left side perspective view of a controlling apparatus for welding equipment; FIG. 2 is a rear elevational view thereof; and, FIG. 3 is a bottom plan view thereof. The broken lines in the drawings illustrate environmental subject matter and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



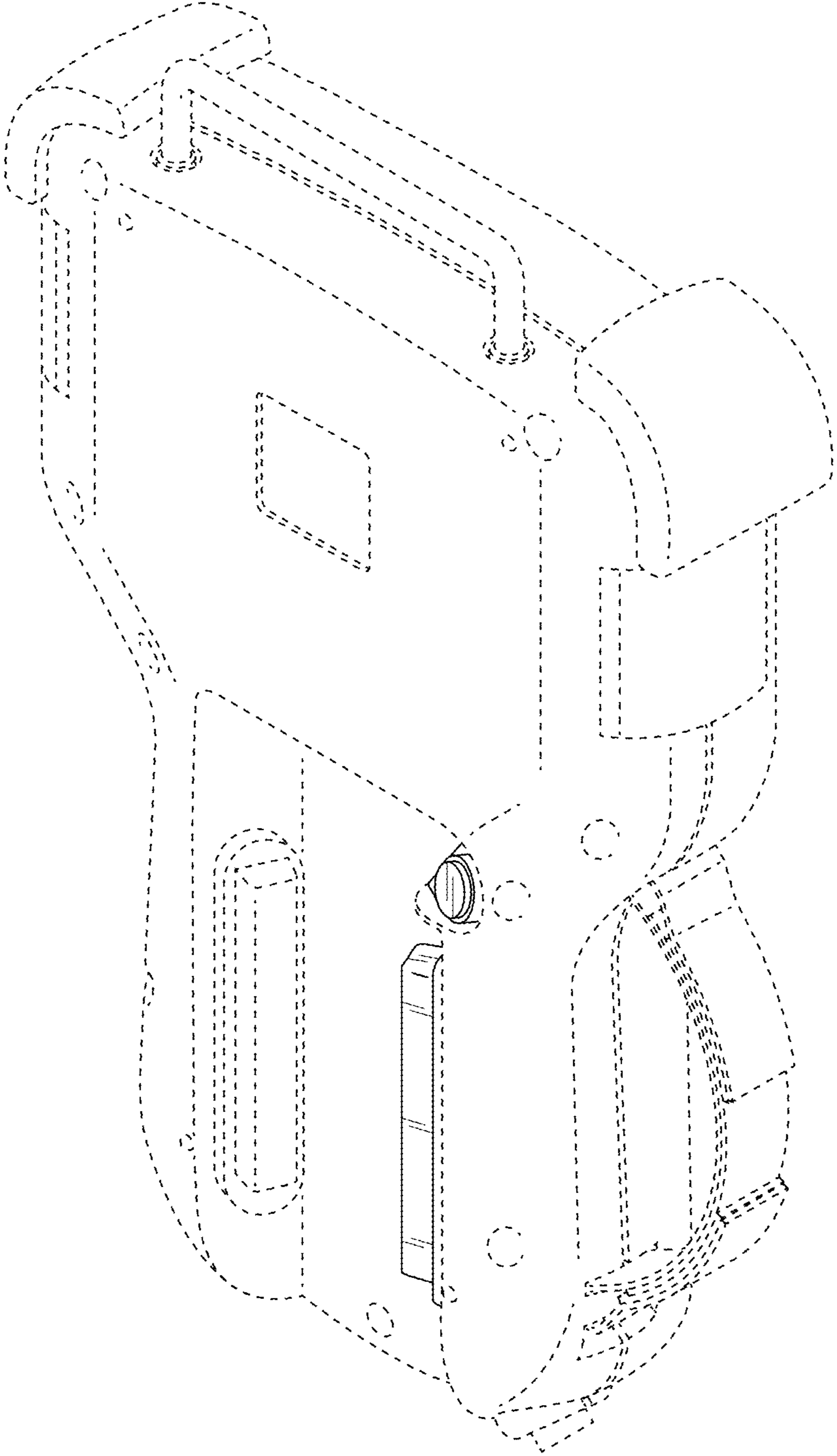


FIG. 1

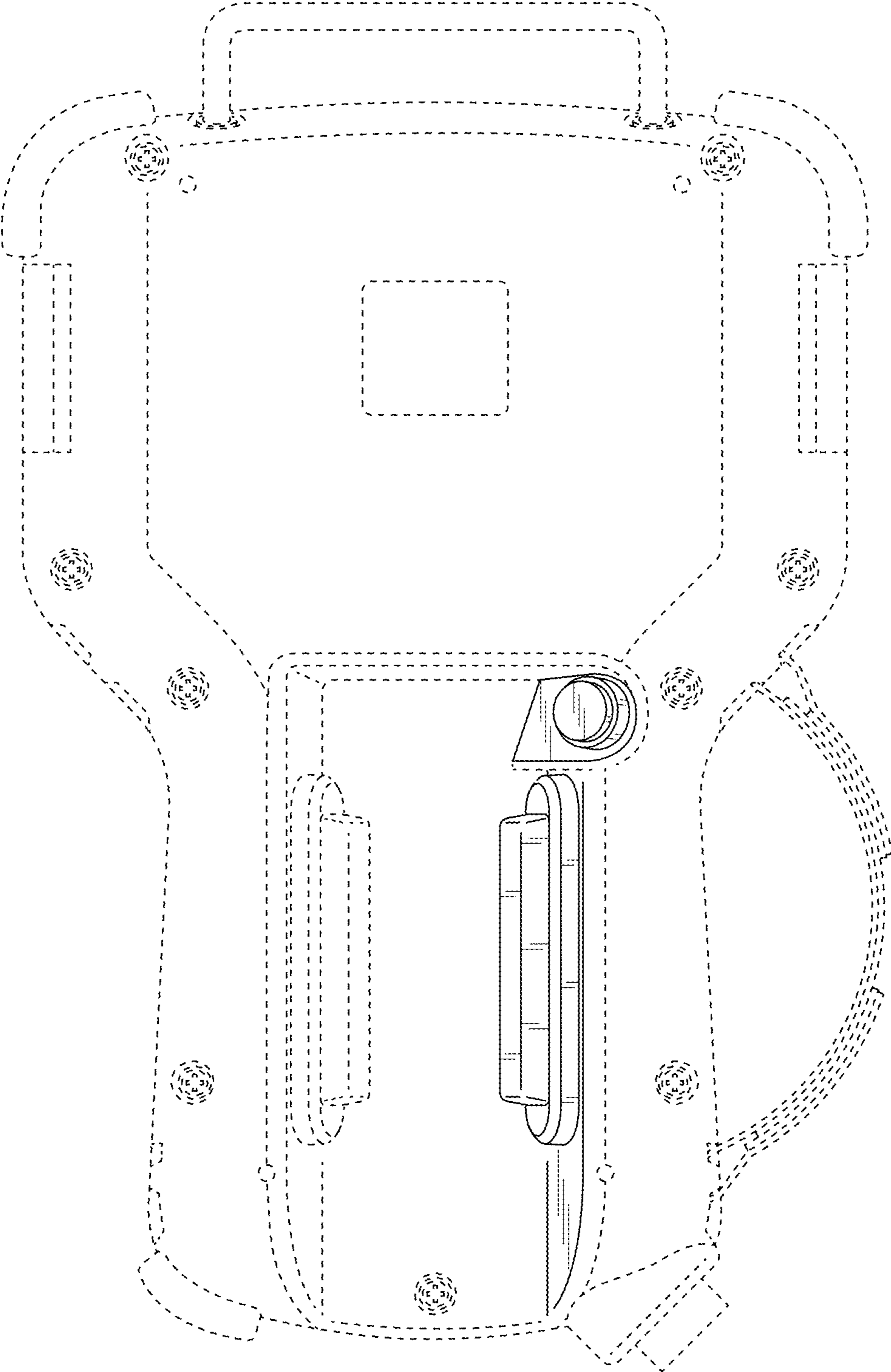


FIG.2

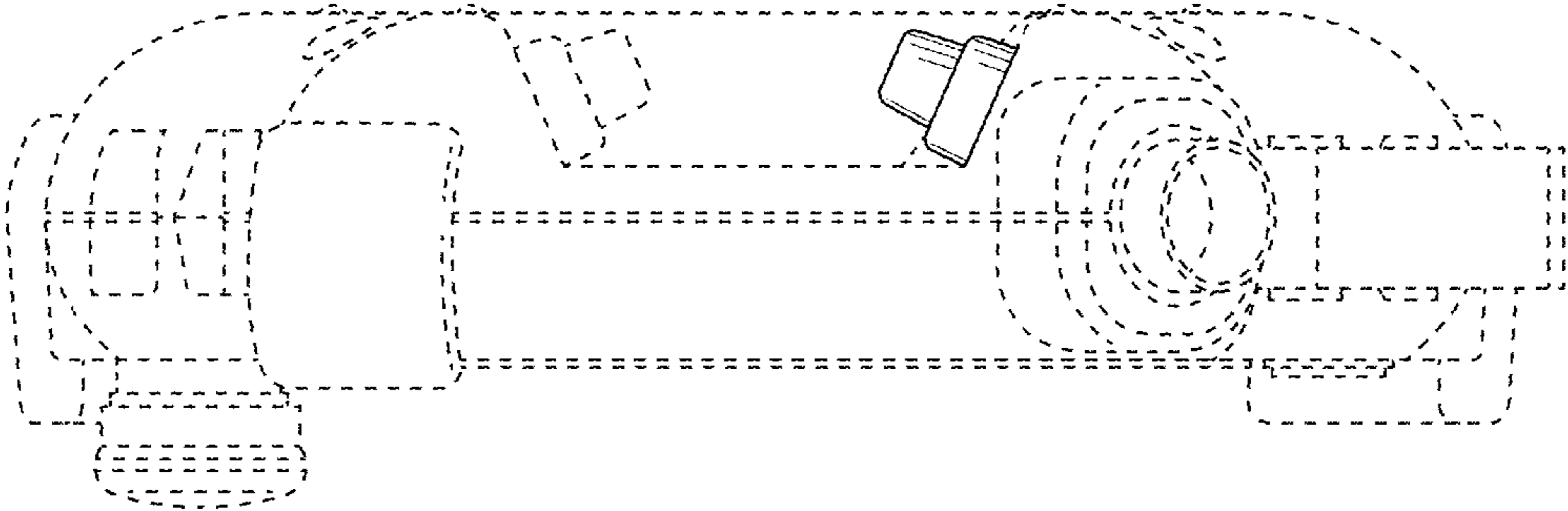


FIG.3