

US00D965401S

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

(10) **Patent No.:** **US D965,401 S**  
(45) **Date of Patent:** **\*\* Oct. 4, 2022**

- (54) **DIGITAL DISPLAY SOLDERING IRON**
- (71) Applicant: **Dongxian Yang**, Meizhou (CN)
- (72) Inventor: **Dongxian Yang**, Meizhou (CN)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/814,754**
- (22) Filed: **Nov. 9, 2021**
- (51) **LOC (13) Cl.** ..... **08-05**
- (52) **U.S. Cl.**  
USPC ..... **D8/30**
- (58) **Field of Classification Search**  
USPC ..... D8/14, 29.1, 29.2, 30, 51; D15/144  
CPC ..... B23K 3/0615; B23K 3/063; B23K 3/06;  
B23K 3/046; B23K 3/021; B23K 3/022;  
B23K 3/023; B23K 3/033  
See application file for complete search history.

- D905,521 S \* 12/2020 Ding ..... D8/30
- D918,974 S \* 5/2021 Bublitz ..... D8/30
- D935,500 S \* 11/2021 Li ..... D8/30
- D937,645 S \* 12/2021 Gou ..... B23K 3/026  
D8/30
- D951,049 S \* 5/2022 Li ..... B23K 3/0369  
D8/30
- D951,316 S \* 5/2022 Gou ..... B23K 3/033  
D15/144.2
- D951,317 S \* 5/2022 Li ..... H01R 13/5833  
D8/30
- D955,193 S \* 6/2022 Xu ..... B23K 3/033  
D8/30
- 2006/0108345 A1 \* 5/2006 Shigekawa ..... B23K 3/0369  
219/229

(Continued)

**OTHER PUBLICATIONS**

Results from Amazon.com search for soldering irons, Jun. 2022.\*

*Primary Examiner* — Philip S Hyder

(74) *Attorney, Agent, or Firm* — Rumit Ranjit Kanakia

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 5,928,536 A \* 7/1999 Lee ..... B23K 3/033  
219/229
- 6,989,511 B1 \* 1/2006 Tsai ..... H01R 13/5833  
219/229
- D516,884 S 3/2006 Axinte
- D530,168 S 10/2006 Doi
- D533,416 S 12/2006 Axinte
- D553,925 S 10/2007 Axinte
- D559,055 S 1/2008 Axinte
- D564,319 S 3/2008 Tsai
- D626,809 S 11/2010 Louet-Feisser
- D847,233 S \* 4/2019 Gou ..... D15/144
- D847,234 S \* 4/2019 Gou ..... D15/144
- D847,235 S \* 4/2019 Gou ..... D15/144
- D862,547 S \* 10/2019 Xie ..... D8/30
- D865,014 S \* 10/2019 Xu ..... D8/30
- D887,801 S 6/2020 Li
- D891,209 S 7/2020 Gou
- D892,579 S \* 8/2020 Cheng ..... D8/30
- D897,173 S 9/2020 Ding

(57) **CLAIM**

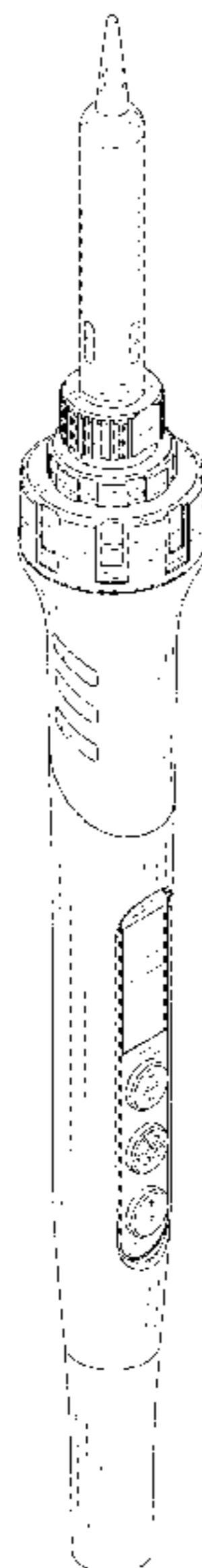
The ornamental design for a digital display soldering iron, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a digital display soldering iron showing my new design;  
 FIG. 2 is a front elevation view thereof;  
 FIG. 3 is a rear elevation view thereof;  
 FIG. 4 is a left side elevation view thereof;  
 FIG. 5 is a right side elevation view thereof;  
 FIG. 6 is a top plan view thereof; and,  
 FIG. 7 is a bottom plan view thereof.

The broken lines in the figures are for the purposes of illustrating portions of the digital display soldering iron, which form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



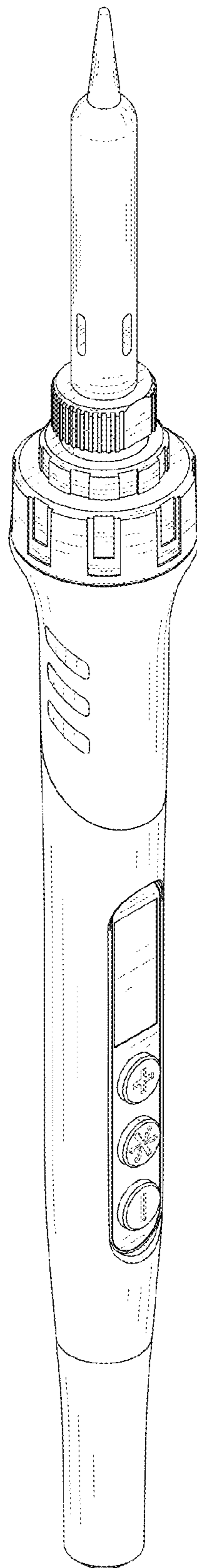
(56)

**References Cited**

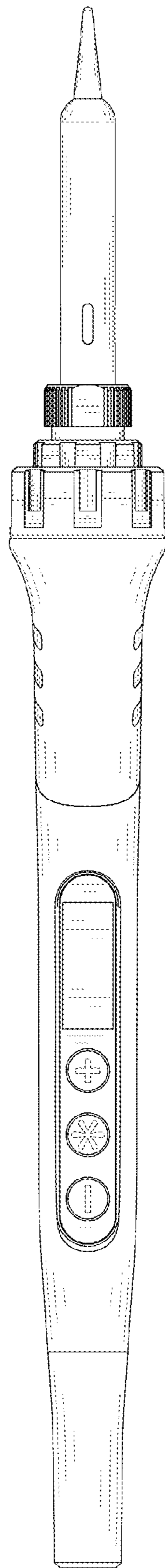
U.S. PATENT DOCUMENTS

2013/0105466 A1\* 5/2013 Teraoka ..... B23K 3/033  
219/538  
2019/0240756 A1\* 8/2019 Weissenberger ..... B23K 3/026

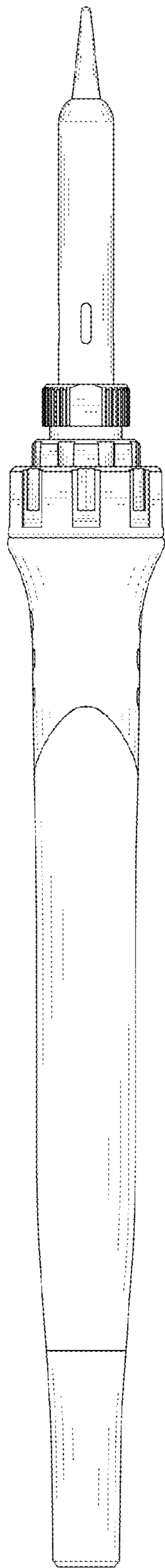
\* cited by examiner



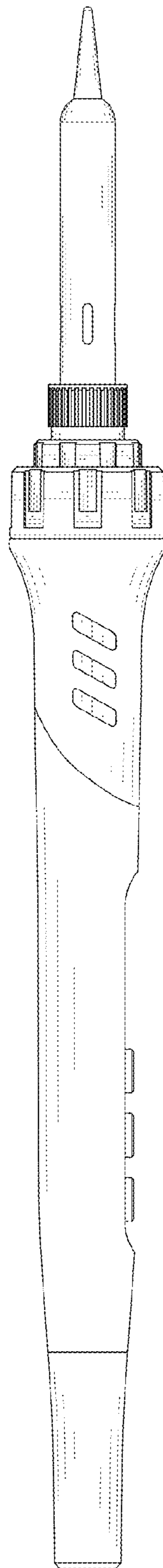
**FIG. 1**



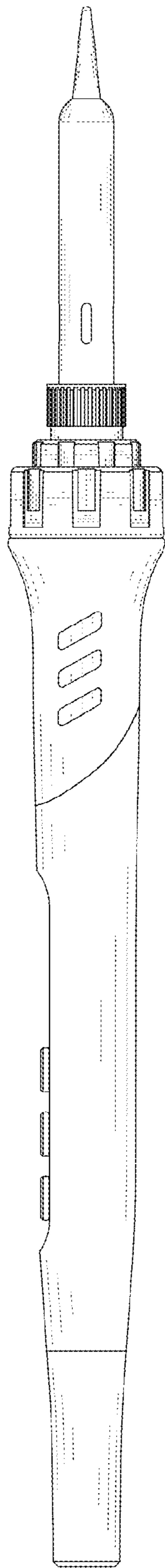
**FIG. 2**



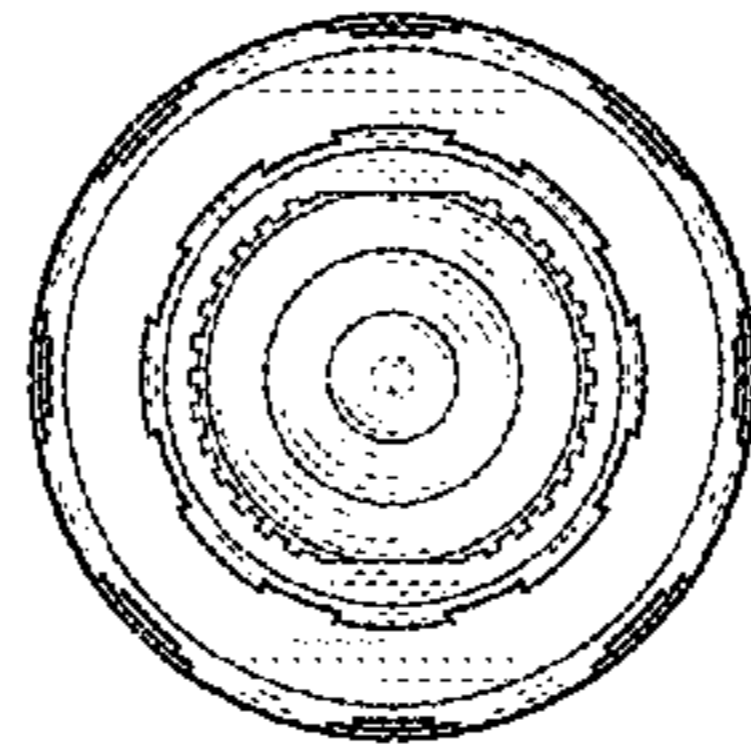
**FIG. 3**



**FIG. 4**

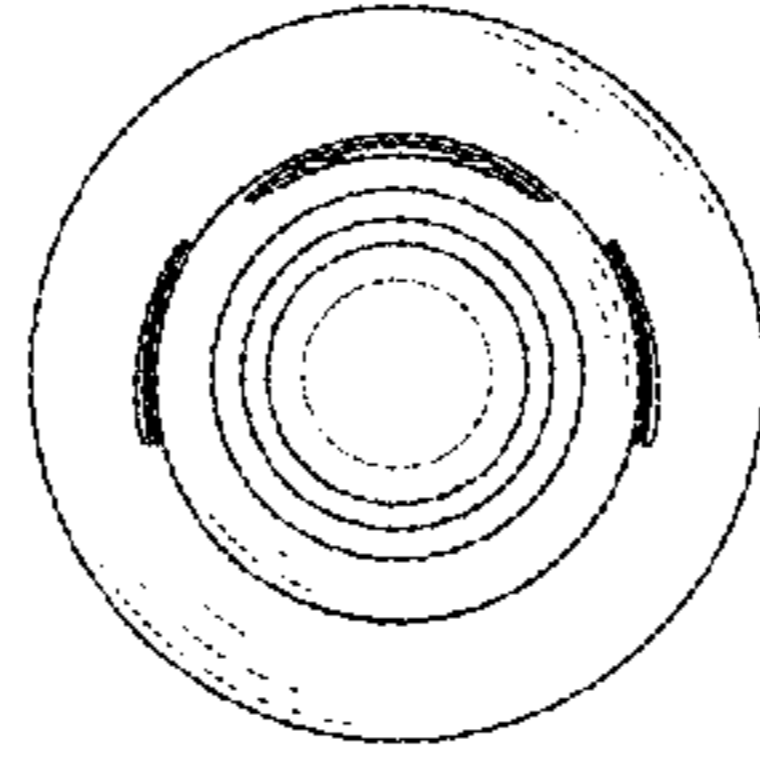


**FIG. 5**



***FIG. 6***





***FIG. 7***