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

(10) **Patent No.:** **US D851,763 S**
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- (54) **FIRE STARTER LANCE**
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/589,212**
- (22) Filed: **Dec. 29, 2016**
- (51) **LOC (11) Cl.** **07-99**
- (52) **U.S. Cl.**
USPC **D24/147**
- (58) **Field of Classification Search**
USPC D21/402; D28/8.1; D23/127, 129, 386, D23/403; D7/402, 403, 404, 407, 408, D7/409, 416, 332, 333, 334, 335, 336, D7/337, 362, 363, 364, 365, 366, 367; D24/127; 126/36; D8/14, 83, 315, 316, D8/317, 318, 319, 320, 321, 322; 294/14
CPC A47J 37/0713; A47J 37/041; A47J 37/042; A47J 37/043; F23D 2203/1012; F23D 2900/00017; F23D 2206/0094; F23D 91/02; F24C 3/14; F24C 1/16; F24C 5/20; F24B 15/005; F24B 15/002; F23G 7/04; F23L 9/00; F23Q 13/02; F23Q 13/04
See application file for complete search history.

- 3,589,312 A * 6/1971 Cooper A47J 37/079
126/25 B
- 3,605,653 A * 9/1971 Donnell F24B 15/005
126/25 B
- 3,824,984 A 7/1974 Swanson et al.
- 3,987,779 A 10/1976 Richardson
(Continued)

OTHER PUBLICATIONS

“Cajun Dragon General Demonstration” https://www.youtube.com/watch?v=YgNSD_fzK1E May 26, 2016 (Year: 2016).*

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(57) **CLAIM**

The ornamental design for a fire starter lance, as shown and described.

DESCRIPTION

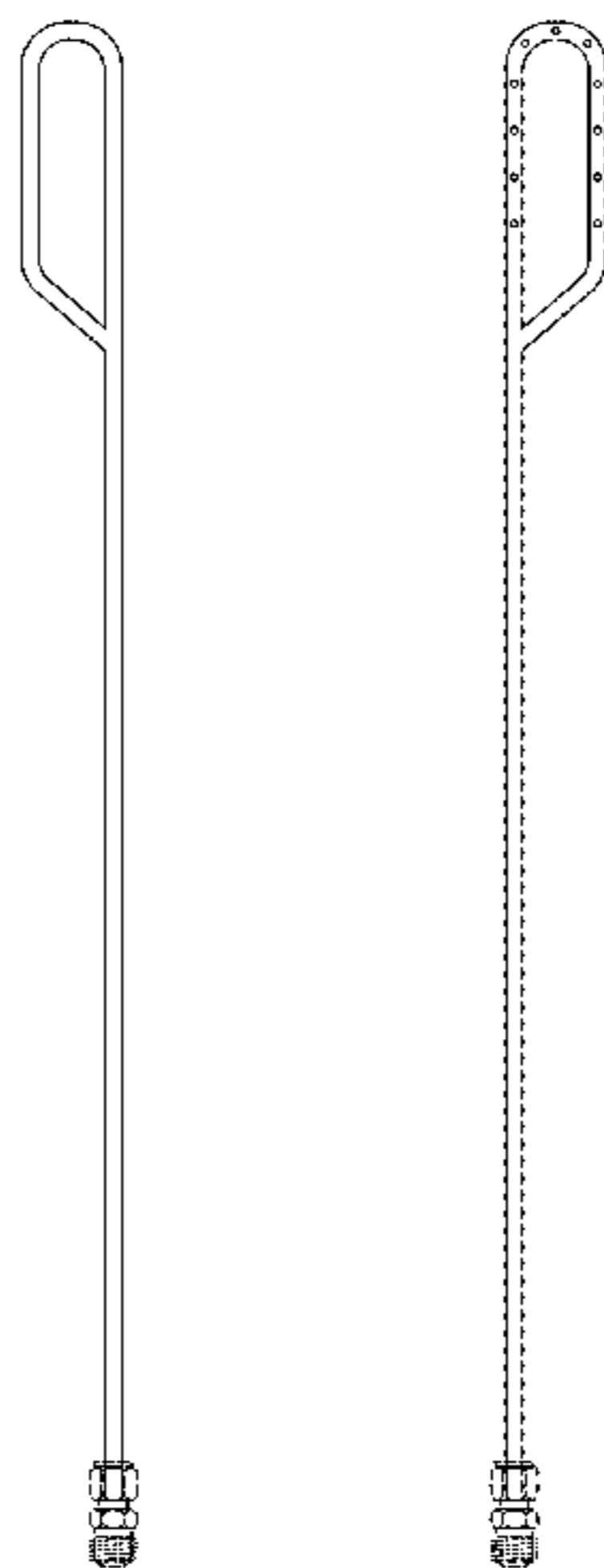
FIG. 1 is a bottom view of a first embodiment, showing the design of a fire starter lance;
FIG. 2 is a top view of a first embodiment;
FIG. 3 is a left side view of a first embodiment;
FIG. 4 is a right side view of a first embodiment;
FIG. 5 is a front end view of a first embodiment;
FIG. 6 is a rear end view of a first embodiment;
FIG. 7 is a bottom view of a second embodiment, showing the design of a fire starter lance;
FIG. 8 is a top view of a second embodiment;
FIG. 9 is a left side view of a second embodiment;
FIG. 10 is a right side view of a second embodiment;
FIG. 11 is a front end view of a second embodiment; and, FIG. 12 is a rear end view of a second embodiment.
No color is claimed as part of the design. The fittings shown in dotted or broken lines in FIGS. 1-12 are connectors and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 109,324 A 11/1870 Kenney, Sr.
- 420,056 A 1/1890 Hackney
- D54,852 S * 4/1920 Kerr et al. D23/415
- 1,802,626 A 4/1931 Boyd et al.
- 3,410,261 A 11/1968 Cooper et al.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,013,398 A * 3/1977 Hendrix F23Q 2/16
 294/209
 D254,704 S * 4/1980 Hammond D8/14
 4,222,734 A 9/1980 Nolf
 D258,309 S * 2/1981 Leighton D23/415
 D258,342 S * 2/1981 Boulis D23/403
 4,315,731 A 2/1982 Moore
 4,522,585 A * 6/1985 Martin F23Q 13/04
 126/25 B
 4,779,608 A * 10/1988 Smith F23Q 13/04
 126/25 B
 4,891,005 A * 1/1990 Carter F23Q 13/04
 126/25 B
 D346,530 S * 5/1994 Elliott D7/402
 D375,020 S * 10/1996 Cothorn D7/402
 5,800,158 A * 9/1998 De Groot F23D 14/28
 126/25 B
 6,044,836 A * 4/2000 Oliver, Jr. F24C 3/006
 126/41 R
 D437,679 S * 2/2001 Lisowski D3/9
 D443,354 S * 6/2001 Johnston D23/415
 D445,174 S * 7/2001 Fox D23/415
 6,926,519 B1 * 8/2005 Lusson F23Q 2/16
 431/254
 D551,799 S 9/2007 Smith

D673,359 S * 1/2013 Goldwasser D3/10
 D690,460 S * 9/2013 Kurland D27/139
 D717,596 S * 11/2014 Maher D7/402
 8,875,693 B2 * 11/2014 Irvin F23D 14/105
 126/39 E
 D754,475 S * 4/2016 Pontano D7/402
 D767,874 S * 10/2016 Berberian D3/7
 D783,351 S * 4/2017 Fujino D7/407
 D786,388 S * 5/2017 Pennington D22/117
 D792,741 S * 7/2017 Chung D7/407
 9,879,863 B1 * 1/2018 Lazarov F24B 15/002
 10,088,168 B2 * 10/2018 Yeh F24C 3/004
 2005/0110253 A1 5/2005 Khandhadia et al.
 2006/0035191 A1 * 2/2006 Van Vuuren F23D 14/28
 431/344
 2008/0081308 A1 * 4/2008 Witzel F23D 14/62
 431/354
 2008/0085484 A1 4/2008 Tornquist
 2008/0171296 A1 * 7/2008 Yen F23D 14/105
 431/346
 2009/0205631 A1 * 8/2009 Tsung F23D 14/045
 126/39 E
 2009/0315351 A1 * 12/2009 Biddington F24B 15/002
 294/14
 2010/0154775 A1 * 6/2010 Robinson F23D 14/06
 126/39 E
 2016/0069564 A1 * 3/2016 Ahmed F23D 14/10
 126/39 E

* cited by examiner

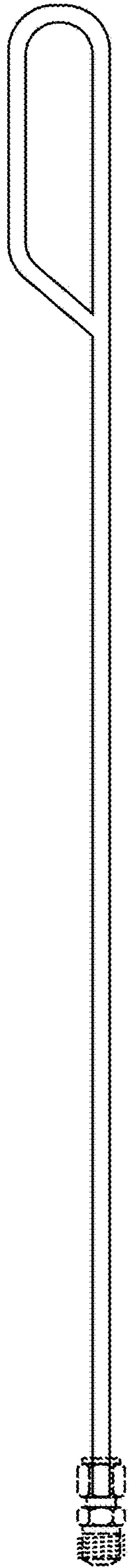


FIG. 1



FIG. 2

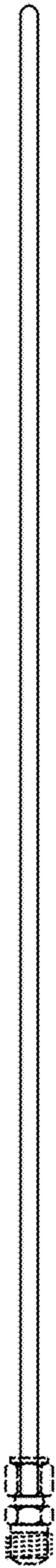


FIG. 3

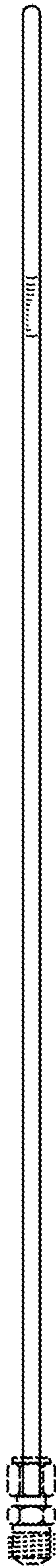


FIG. 4

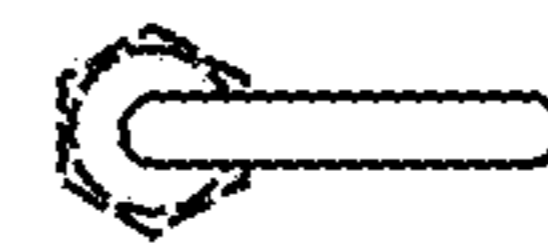


FIG. 5



FIG. 6

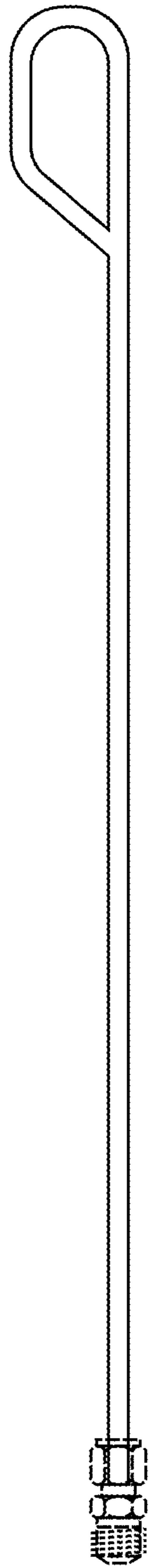


FIG. 7

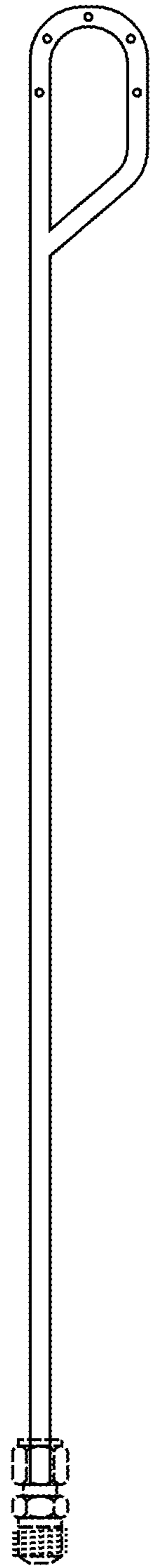


FIG. 8

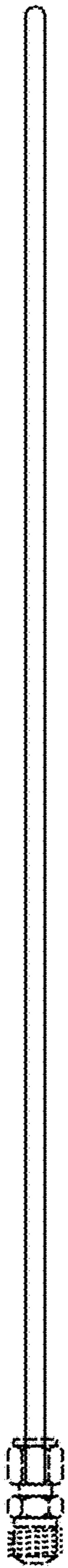


FIG. 9

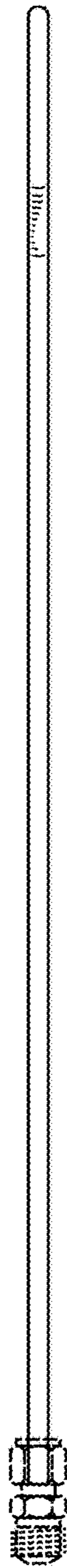


FIG. 10



FIG. 11



FIG. 12