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(12) **United States Design Patent**
O'Connor

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(54) **GAS JET FOR AN ORNAMENTAL-FLAME BURNER**

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

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(51) **LOC (13) Cl.** **07-08**

(52) **U.S. Cl.**
USPC **D23/403**

(58) **Field of Classification Search**
USPC D7/407; D23/403, 404, 409, 415, 416
CPC B23K 9/26; F24B 1/18; F24B 3/006
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,539,420	A *	5/1925	Kerr	F23D 14/04	239/543
1,818,783	A *	8/1931	Beam	F23D 14/04	431/353
D105,171	S *	6/1937	Hansen	D23/415	
2,547,276	A	4/1951	Marsh		
2,559,527	A	7/1951	Williams, Jr.		
2,647,303	A	8/1953	Ziherl		
3,038,064	A	6/1962	Gieb		
3,270,967	A *	9/1966	Westerman	F23D 14/10	239/560
3,279,705	A	10/1966	Stiefel		
3,582,250	A	6/1971	Chatfield		
3,760,790	A	9/1973	Hodges		
4,061,133	A	12/1977	Swain		
4,383,820	A	5/1983	Camacho		
4,686,957	A	8/1987	Koziol		
4,786,247	A	11/1988	Bhattacharjee		
4,875,464	A	10/1989	Shimek et al.		
5,000,162	A	3/1991	Shimek et al.		
5,081,981	A	1/1992	Beal		
5,556,550	A *	9/1996	Fyffe	B23K 9/325	219/136

(Continued)

OTHER PUBLICATIONS

"The Burning Question", Oct. 2, 2017, YouTube, site visited May 4, 2021: https://www.youtube.com/watch?v=TwlEPY087Mk (Year: 2017).*

(Continued)

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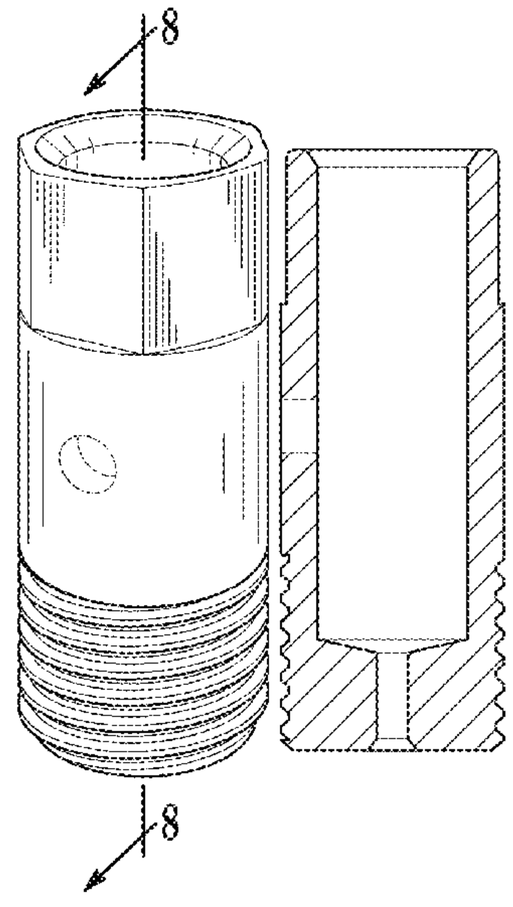
(57) **CLAIM**

I claim the ornamental design for a gas jet for an ornamental-flame burner, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a jet for an ornamental-flame burner; and,
FIG. **2** is front view of the gas jet.
FIG. **3** is a top view of the gas jet.
FIG. **4** is a right-side view of the gas jet.
FIG. **5** is a left-side view of the gas jet
FIG. **6** is a rear view of the gas jet.
FIG. **7** is a bottom view of the gas jet; and,
FIG. **8** is a cross-sectional view of the gas jet through line **8** in FIG. **1**.
The broken lines in the Figures are directed to unclaimed subject matter of the gas jet, and the broken lines form no part of the claimed design.

1 Claim, 2 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

5,636,980	A *	6/1997	Young	F23D 23/00 431/202
5,655,513	A	8/1997	Whitfield	
5,901,697	A	5/1999	Marshall et al.	
6,269,809	B1	8/2001	Fleming	
6,354,831	B1	3/2002	Wilk, Jr. et al.	
6,796,302	B2 *	9/2004	Butler	F23C 7/008 126/512
7,479,008	B2 *	1/2009	Thomas	F23D 14/02 126/512
7,488,171	B2 *	2/2009	St. Charles	F23D 14/105 431/329
8,033,822	B2	10/2011	Junkins	
9,125,516	B2	9/2015	Adkins	
D759,137	S *	6/2016	Hassan	D15/144
9,829,195	B2 *	11/2017	Deng	F23D 17/002
10,571,117	B1 *	2/2020	Stone	F23C 5/02
2003/0209530	A1 *	11/2003	Stuart	B23K 9/173 219/137.61
2006/0088794	A1	4/2006	Purcell	
2007/0006528	A1	1/2007	Walt et al.	
2007/0056945	A1 *	3/2007	Hammen	B23K 9/26 219/137.43
2007/0128562	A1 *	6/2007	Thomas	F23D 14/02 431/125
2007/0207429	A1	9/2007	Barker	
2008/0308645	A1	12/2008	Laine	
2011/0006048	A1 *	1/2011	Ma	B23K 9/123 219/137.61
2012/0074687	A1 *	3/2012	Mitchell	F16L 15/00 285/179
2013/0071796	A1	3/2013	Cole et al.	
2015/0354814	A1	12/2015	Cody	
2016/0053580	A1	2/2016	Briggs	
2017/0350600	A1 *	12/2017	Jenkins	F24B 1/181
2018/0178306	A1 *	6/2018	Whipple	B23K 9/295
2018/0214973	A1 *	8/2018	Jansma	B23K 9/173
2018/0354060	A1 *	12/2018	Sigi	B23K 9/26

OTHER PUBLICATIONS

"Uxcell MIG Welding Tips" Nov. 23, 2018, Amazon, site visited May 4, 2021: https://www.amazon.com/dp/B07KT1TG9R/ (Year: 2018).*

https://web.archive.org/web/20111229122931/http://firepitoutfitter.com/productimages/warmingtrends/crossfire_close.gif, Dec. 2011 (Year: 2011).

https://web.archive.org/web/20131130022654/thhp://www.warmng-trends.com/crossfireburners.html, Nov. 2013 (Year: 2013).

"Chapter 3: Pipe Fittings," Pipe Drafting and Design, by Roy A. Parisher and Robert A. Rhea, 3rd ed., Elsevier/GPP, 2012, pp. 36-37. (Year: 2012).

Fulford, Dr. David; Biogas Stove Design a Short Course; Aug. 1996; used in MSc Course on "Renewable Energy and the Environment" at the University of Reading, UK for and Advanced Biomass Module.

http://fireflypatio.com/fire-pit-kits.html; Firefly Patio & Hearth; Jan. 26, 2018.

2013 Warming Trends Catalog; published Oct. 3, 2013; pp. 1-42.

2014 Warming Trends Catalogue; published May 1, 2014; pp. 1-39.

YouTube video screen capture: "Hottest Firepits in the Market," published Mar. 1, 2012.

YouTube video screen capture: "Hottest Firepits in the Market," published Feb. 8, 2012.

Bobe Perfect Flame; "Perfect Flame by Bobe Water and Fire," published 2017; https://static1.squarespace.com/static/559c077be4b00d04ee713a77/t/5a847e9f652deab3dec30982/1518632613714/Torrent+Brochure+2017.pdf; retrieved Apr. 23, 2020.

Montana Fire Pits; https://montanafirepits.com/best-brass-fire-pit-burner/; Retrieved Aug. 5, 2020 (7 pages).

Extended European Search Report for Application No. EP20154333.7 dated Sep. 2, 2020.

* cited by examiner

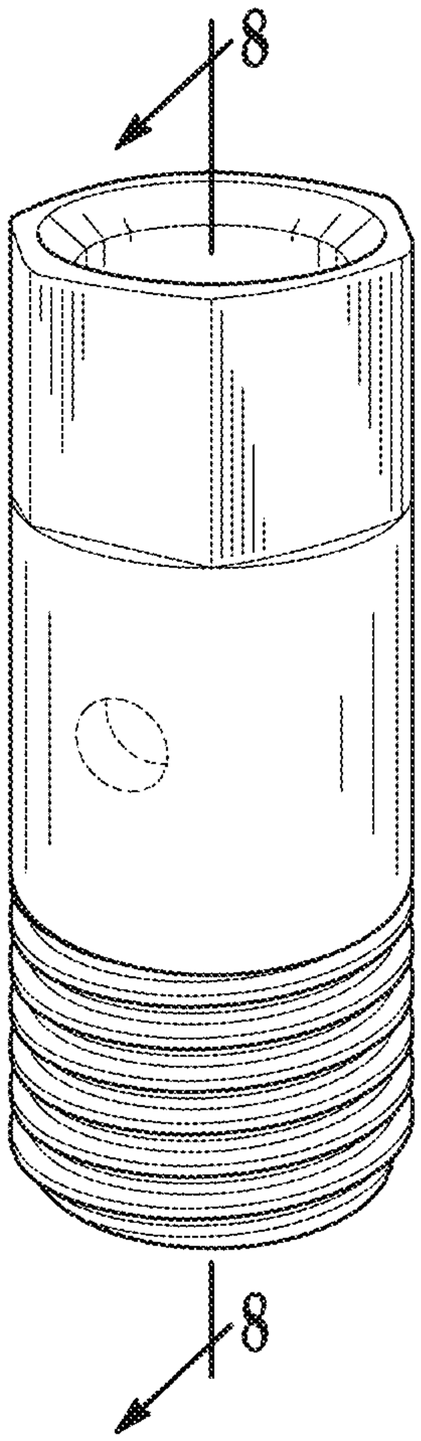


FIG. 1

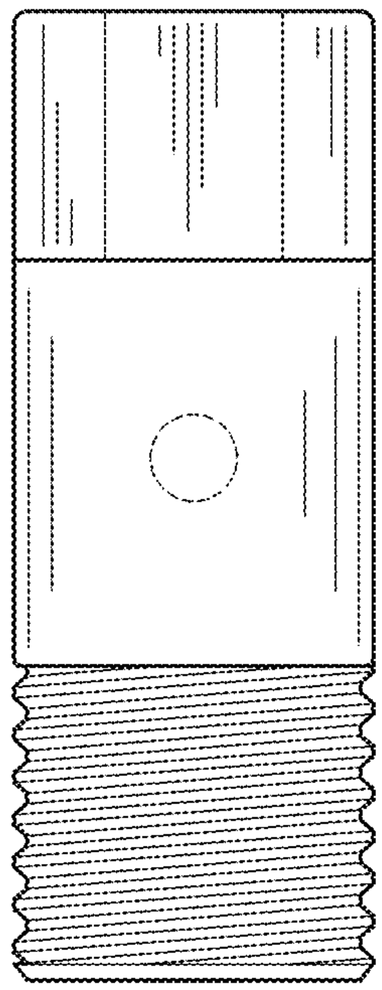


FIG. 2

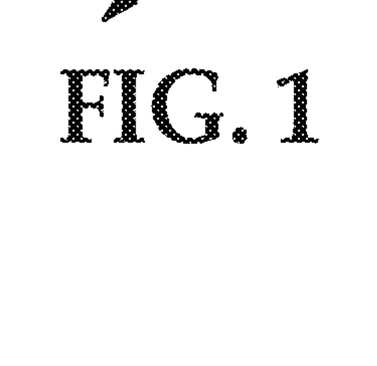


FIG. 3

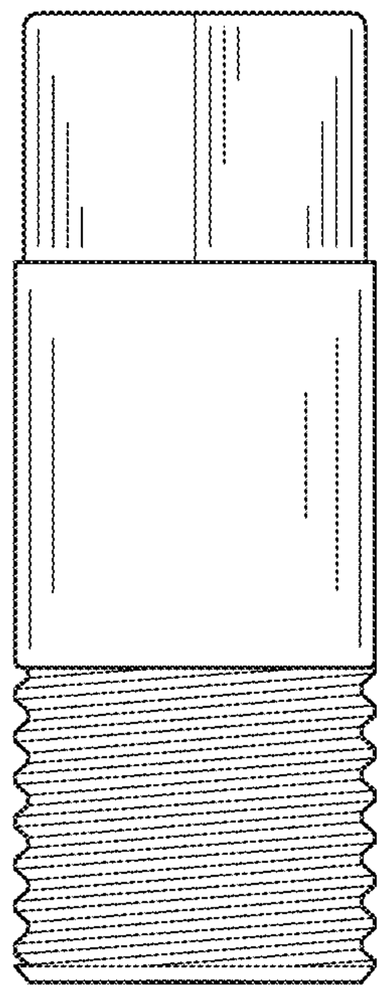


FIG. 4

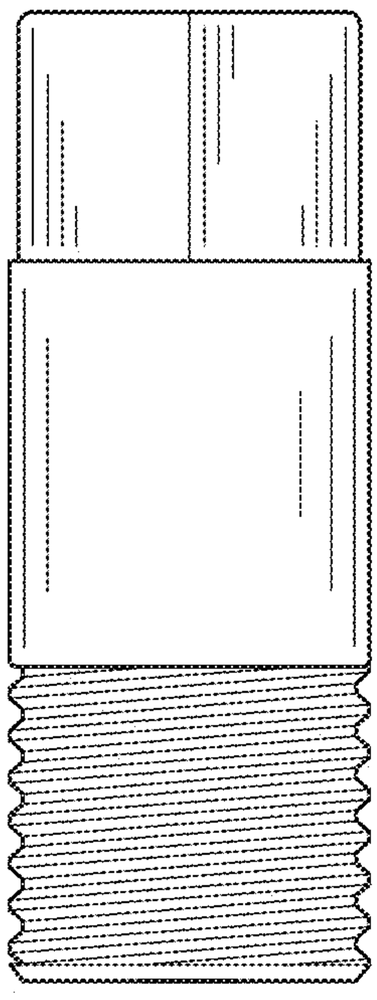


FIG. 5

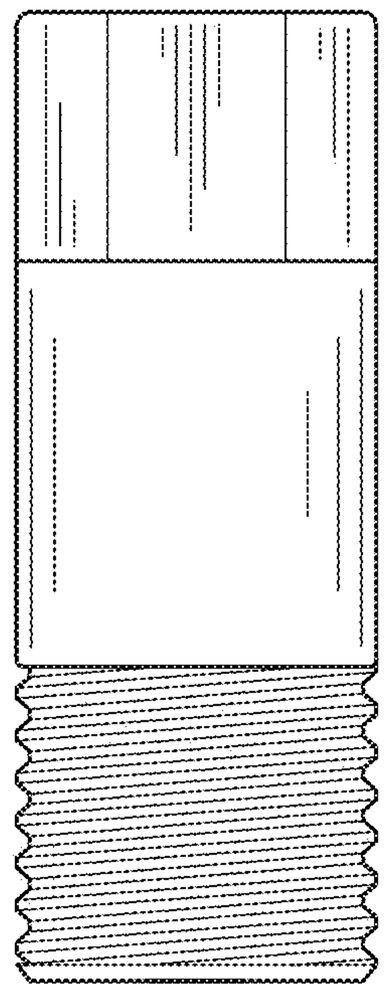


FIG. 6

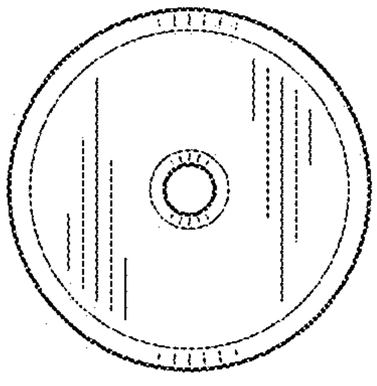


FIG. 7

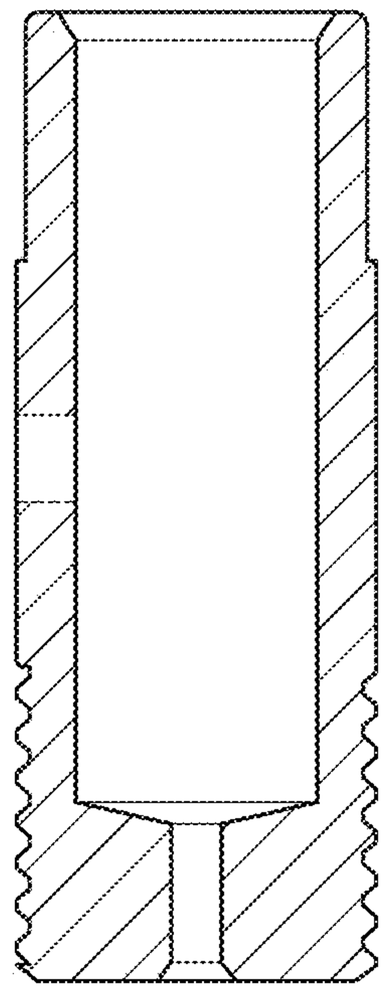


FIG. 8