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

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(54) **CUTTING TOOL**

(71) Applicants: **Sumitomo Electric Industries, Ltd.**, Osaka (JP); **Sumitomo Electric Hardmetal Corp**, Itami (JP)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (15) Cl.** **15-09**
(52) **U.S. Cl.**
USPC **D15/139**
(58) **Field of Classification Search**
USPC D8/20, 70, 85, 86; D15/21, 28, 131–133, D15/138, 139; D7/412, 414
CPC . B23B 51/0413; B23B 51/50; B23B 51/0433; B23B 51/02; B23B 51/048; B23B 5/162; B23B 5/163; B02C 4/305; B02C
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D307,020 S * 4/1990 Lyng D15/139
D582,448 S * 12/2008 Boulakhov D15/139
(Continued)

OTHER PUBLICATIONS

DiCTools, Cylindrical Milling Cutter, (site visited Aug. 24, 2023), Dictoolsindia.com, URL:<https://www.dictoolsindia.com/hss-cutting-tools/cylindrical-milling-cutter.php> (Year: 2023).
(Continued)

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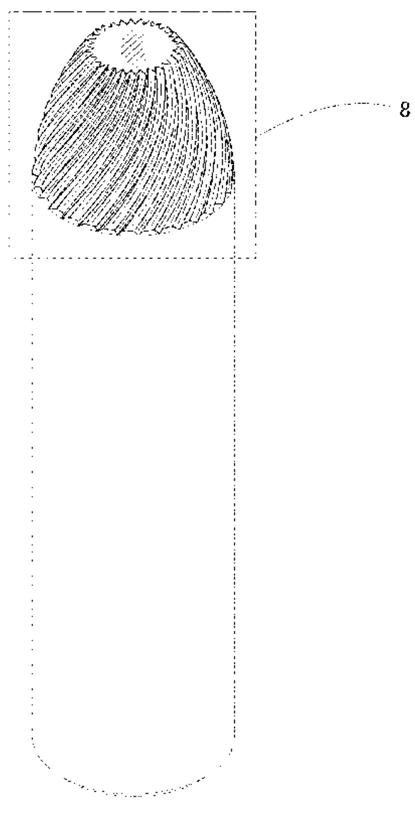
(57) **CLAIM**

The ornamental design for a cutting tool, as shown and described.

DESCRIPTION

FIG. **1** is a front view of a cutting tool in accordance with the present design;
FIG. **2** is a rear view thereof;
FIG. **3** is a right side view thereof;
FIG. **4** is a left side view thereof;
FIG. **5** is a top view thereof;
FIG. **6** is a bottom view thereof;
FIG. **7** is a perspective view thereof; and,
FIG. **8** is an enlarged view of portion **8** of FIG. **7**.
The broken lines shown in the drawings represent portions of the cutting tool that form no part of the claimed design. The dash dot dash broken lines on FIG. **7** are provided to define the enlargement region shown in FIG. **8** and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(58) **Field of Classification Search**
CPC 7/12; B02C 13/28; B02C 13/2804; B02C 18/18; B27G 15/00; B27G 13/00; B27G 13/10; B23K 7/006; B23K 20/14; B23K 20/227; B23K 20/1225; B23K 20/1235; B23K 20/1265; B24D 7/06; B24D 7/12; B23C 5/10; B23C 5/2221; B23C 5/1009; B23C 2200/0494; B23C 2200/086; B23C 2200/128; B23C 2200/362; B23C 2200/203; B23C 2200/0483; B23C 2210/084; B23C 2210/0485; B23C 2210/40
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D615,570	S		5/2010	Rosenbalm et al.	
D649,989	S		12/2011	Dunlap	
D774,573	S		12/2016	Sharivker et al.	
D792,489	S		7/2017	Sharivker et al.	
D796,563	S	*	9/2017	Sharivker	D15/139
9,878,379	B2	*	1/2018	Davis	B24B 3/06
D877,783	S		3/2020	Smith	
D878,438	S		3/2020	Bono et al.	
10,682,712	B2	*	6/2020	Sharivker	B21K 5/04
D923,675	S		6/2021	Yan et al.	
D924,949	S		7/2021	Mortensen	
D927,272	S	*	8/2021	Tian	D15/139
D960,214	S		8/2022	Kukino et al.	
D961,642	S		8/2022	Earnest	
D964,440	S		9/2022	Harada et al.	
D974,427	S		1/2023	Rydén	
D980,296	S		3/2023	Harada et al.	
D982,631	S		4/2023	Fang et al.	
D1,001,856	S	*	10/2023	Harada	D15/139
D1,002,690	S	*	10/2023	Harada	D15/139
D1,011,871	S	*	1/2024	Abrams	D15/139
11,865,629	B2	*	1/2024	Sharivker	B23C 5/10
D1,014,585	S	*	2/2024	Harada	D15/138
D1,024,146	S	*	4/2024	Kukino	D15/139
D1,024,152	S	*	4/2024	Harada	D15/139
D1,051,958	S	*	11/2024	Vettermann	D15/132
2004/0179904	A1	*	9/2004	Zhou	B23C 5/10 407/54
2007/0154272	A1	*	7/2007	Wells	B23C 5/10 407/54
2007/0160429	A1	*	7/2007	Volokh	B23C 5/003 407/53
2019/0232395	A1	*	8/2019	Abad	B23C 5/1018
2025/0050434	A1	*	2/2025	Marx	B23C 5/1009

OTHER PUBLICATIONS

Cobra Carbide, 10183 Micro Gain Solid Carbide Cylindrical Burr, (first available Aug. 10, 2013), Amazon.com, URL: <https://www.amazon.com/Cobra-Carbide-10167-Cylindrical-Diameter/dp/B00ECN5PNS> (Year: 2013).

Notice of Allowance issued in U.S. Appl. No. 29/669,938, dated Nov. 1, 2022.

* cited by examiner

FIG.1

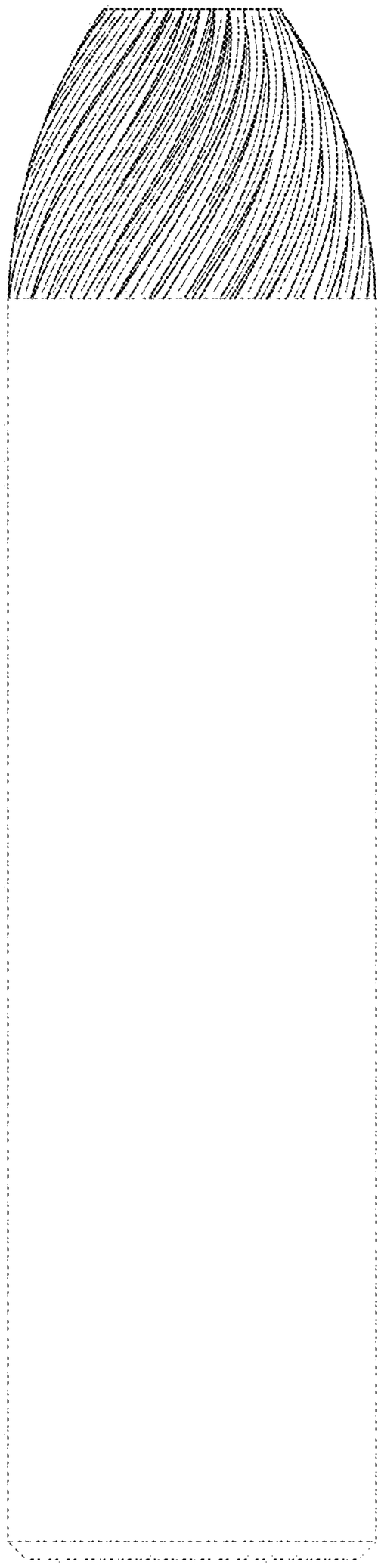


FIG.2

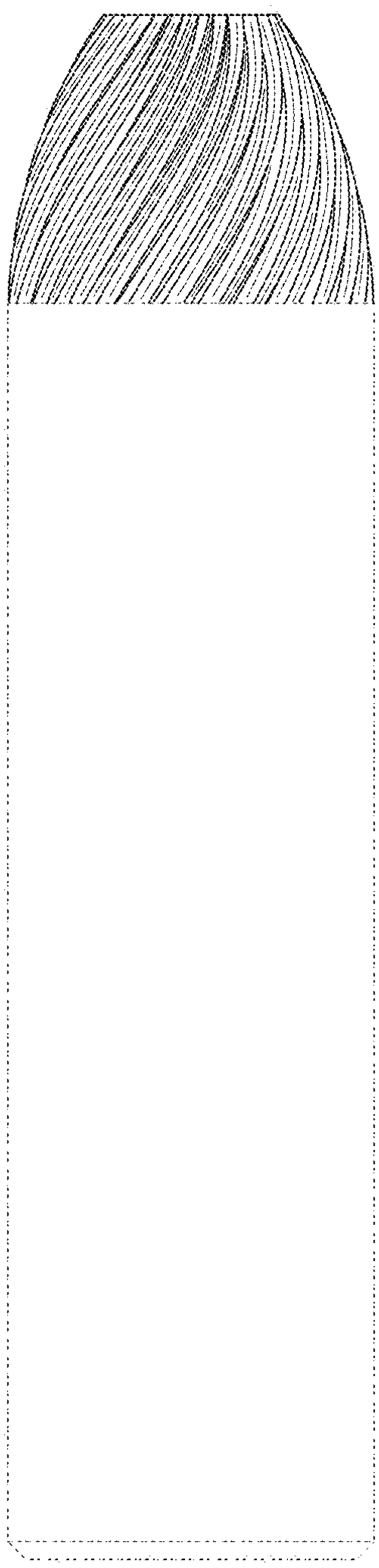


FIG.3

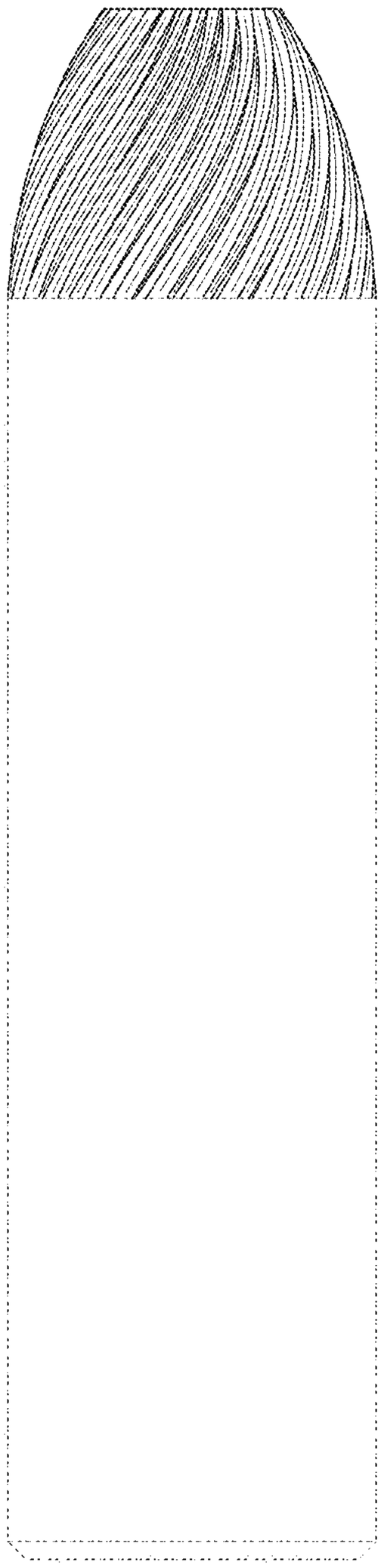


FIG.4

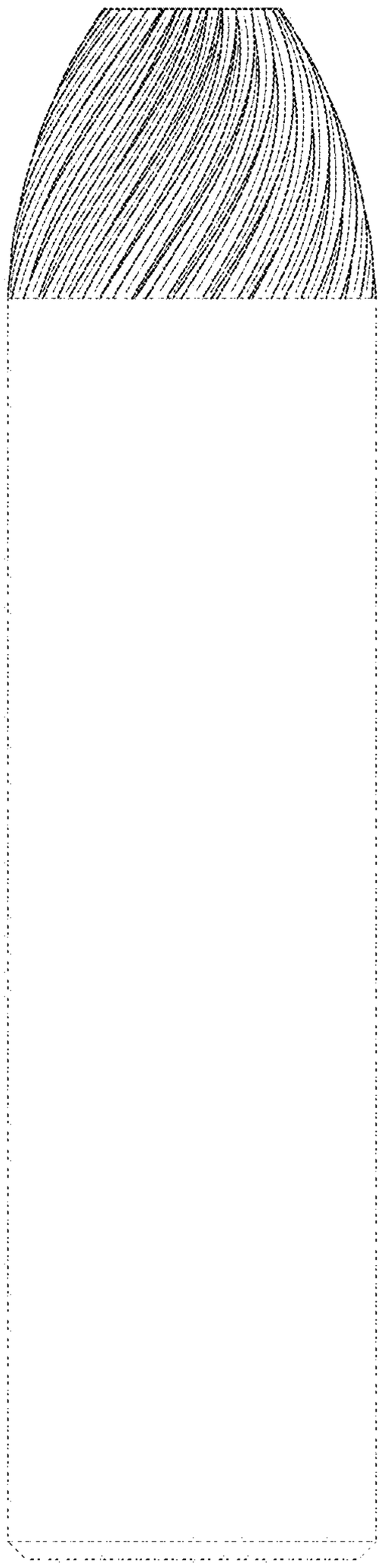


FIG.5

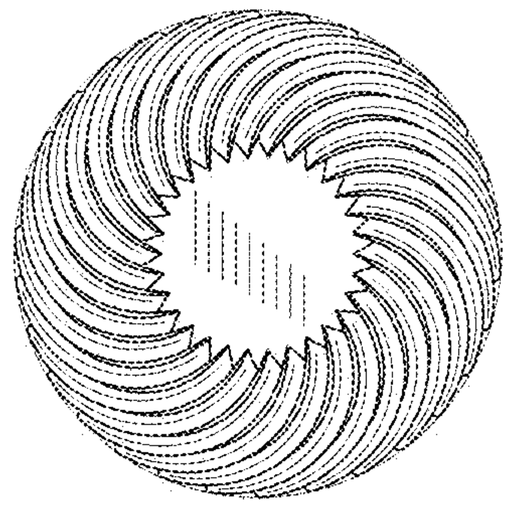


FIG.6

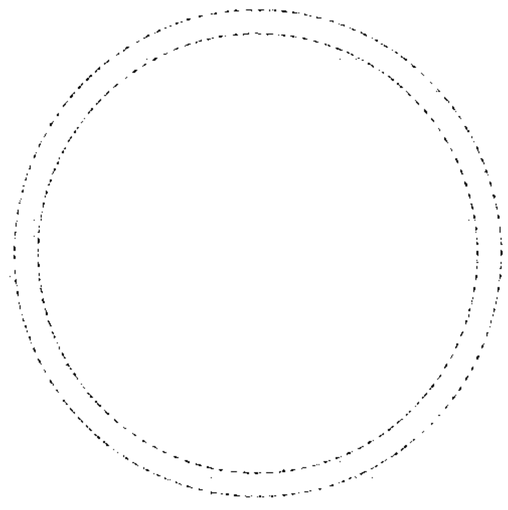


FIG.7

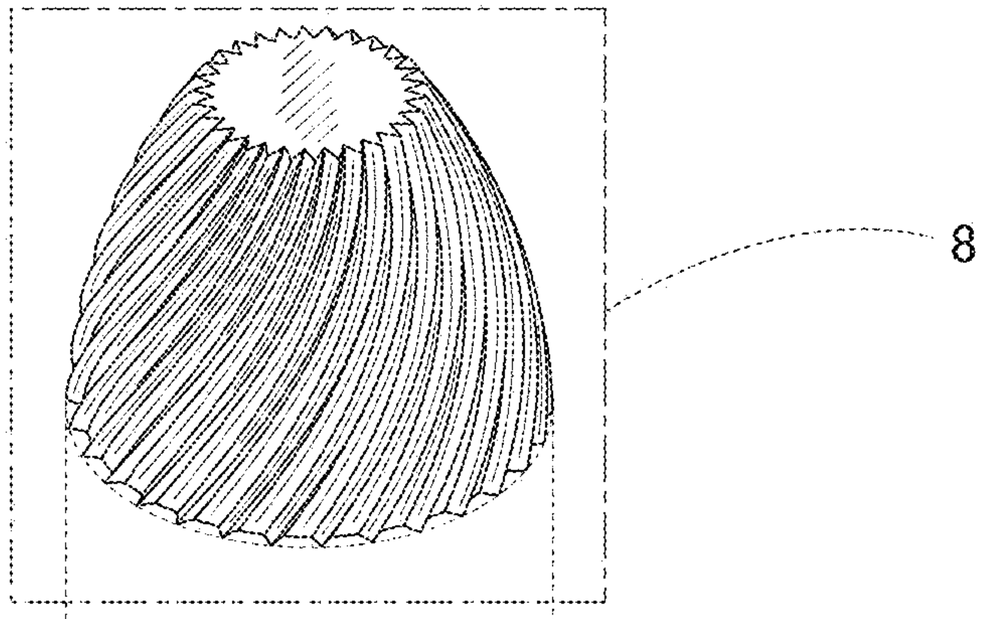


FIG.8