



US00D82664S

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

(10) **Patent No.:** **US D826,664 S**

(45) **Date of Patent:** **\*\* Aug. 28, 2018**

(54) **CUTTING TOOL**

(71) Applicant: **SUMITOMO ELECTRIC**  
**HARDMETAL CORP.**, Itami-shi (JP)

(72) Inventors: **Kouki Matsubara**, Itami (JP); **Junya Okida**, Itami (JP); **Naoki Matsuda**, Itami (JP)

(73) Assignee: **SUMITOMO ELECTRIC**  
**HARDMETAL CORP.**, Itami-shi (JP)

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

(21) Appl. No.: **29/614,435**

(22) Filed: **Aug. 18, 2017**

(30) **Foreign Application Priority Data**

Jul. 5, 2017 (JP) ..... 2017-014533

(51) **LOC (11) Cl.** ..... **08-03**

(52) **U.S. Cl.**  
USPC ..... **D8/20; D15/139**

(58) **Field of Classification Search**  
USPC ..... D8/5, 8, 9, 62, 64, 66, 70, 92, 98, 99;  
30/32, 48, 50, 81, 128, 159, 165, 166.3,  
30/169, 272, 277.4, 294, 346; 83/665,  
83/666, 667, 835, 886; 407/20, 30;  
D15/29, 138, 139  
CPC .. B24B 3/36; B24B 3/365; B24B 3/46; B27B  
5/00; Y10T 83/9319; Y10T 83/9321;  
Y10T 83/9346; Y10T 83/9348; B23D  
61/00; B23D 61/025; B23D 61/06; B23D  
61/04; B23D 61/026; B23D 65/00; B23D  
7/086; B23D 7/2614; B26B 1/00; B26B  
3/00; B26B 21/00; B26B 11/00; B26B  
9/00; B26B 5/00; B26D 7/18

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,036,145 A \* 3/1936 Jewett ..... B27G 13/10  
144/219  
5,197,831 A \* 3/1993 Shiratori ..... B23C 5/1045  
407/114  
5,207,538 A \* 5/1993 Satran ..... B23C 5/2213  
407/113  
D342,269 S \* 12/1993 Arai ..... D15/139  
D367,866 S \* 3/1996 Pantzar ..... D15/139  
D410,475 S \* 6/1999 Bernadic ..... D15/139

(Continued)

*Primary Examiner* — Wan Laymon

*Assistant Examiner* — Clint A Samuel

(74) *Attorney, Agent, or Firm* — Venable LLP; Michael  
A. Sartori; Miguel A. Lopez

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front view of a cutting tool showing our new  
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 first perspective view thereof;

FIG. 8 is a second perspective view thereof;

FIG. 9 is a third perspective view thereof;

FIG. 10 is a cross sectional view taken along line 10-10 of  
FIG. 1;

FIG. 11 is a cross sectional view taken along line 11-11 of  
FIG. 1;

FIG. 12 is a cross sectional view taken along line 12-12 of  
FIG. 1;

(Continued)

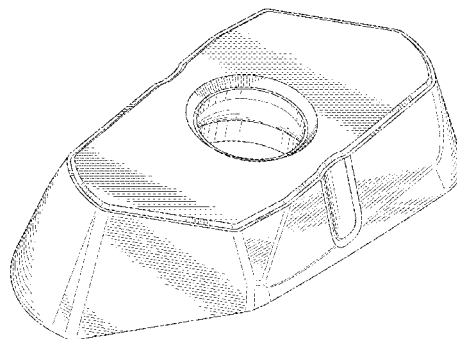
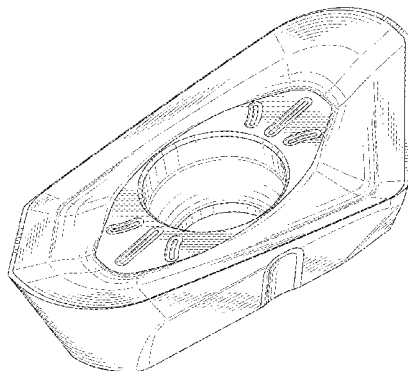


FIG. 13 is an enlarged view of portion 13-13 of FIG. 10; and,  
FIG. 14 is an enlarged view of portion 14-14 of FIG. 11.

### 1 Claim, 8 Drawing Sheets

(56)

### References Cited

#### U.S. PATENT DOCUMENTS

|          |   |   |         |          |       |         |
|----------|---|---|---------|----------|-------|---------|
| D454,142 | S | * | 3/2002  | Vanberg  | ..... | D15/139 |
| D474,787 | S | * | 5/2003  | Niebauer | ..... | D15/139 |
| D487,281 | S | * | 3/2004  | Roman    | ..... | D15/139 |
| D496,949 | S | * | 10/2004 | Waggle   | ..... | D15/139 |
| D497,371 | S | * | 10/2004 | Waggle   | ..... | D15/139 |
| D559,286 | S | * | 1/2008  | Waggle   | ..... | D15/139 |
| D579,470 | S | * | 10/2008 | Maeta    | ..... | D15/139 |
| D595,323 | S | * | 6/2009  | Sakata   | ..... | D15/139 |
| D676,071 | S | * | 2/2013  | Cox      | ..... | D15/139 |

|          |   |   |         |             |       |         |
|----------|---|---|---------|-------------|-------|---------|
| D676,072 | S | * | 2/2013  | Cox         | ..... | D15/139 |
| D705,281 | S | * | 5/2014  | Heinasenaho | ..... | D15/139 |
| D715,840 | S | * | 10/2014 | Park        | ..... | D15/139 |
| D748,703 | S | * | 2/2016  | Nam         | ..... | D15/139 |
| D752,664 | S | * | 3/2016  | Jung        | ..... | D15/139 |
| D786,952 | S | * | 5/2017  | Jeong       | ..... | D15/139 |
| D795,318 | S | * | 8/2017  | Yoshida     | ..... | D15/139 |
| D804,552 | S | * | 12/2017 | Lee         | ..... | D15/139 |
| D805,564 | S | * | 12/2017 | Lee         | ..... | D15/139 |
| D805,566 | S | * | 12/2017 | Oh          | ..... | D15/139 |
| D806,150 | S | * | 12/2017 | Komiyama    | ..... | D15/139 |
| D807,719 | S | * | 1/2018  | Gopi        | ..... | D8/20   |
| D807,935 | S | * | 1/2018  | Dudzinsky   | ..... | D15/139 |
| D812,443 | S | * | 3/2018  | Gonzalez    | ..... | D8/20   |
| D815,164 | S | * | 4/2018  | Schleicher  | ..... | D15/139 |
| D815,165 | S | * | 4/2018  | Morisaki    | ..... | D15/139 |
| D816,133 | S | * | 4/2018  | Mura        | ..... | D15/139 |
| D816,134 | S | * | 4/2018  | Mura        | ..... | D15/139 |
| D816,744 | S | * | 5/2018  | Lee         | ..... | D15/139 |
| D818,016 | S | * | 5/2018  | Yoshida     | ..... | D15/139 |

\* cited by examiner

FIG.1

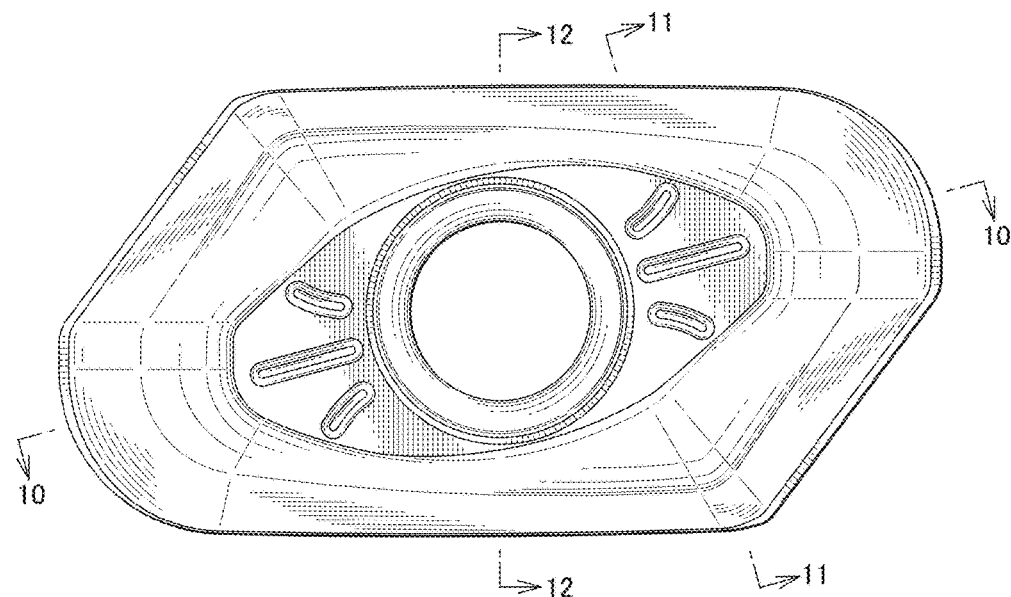


FIG.2

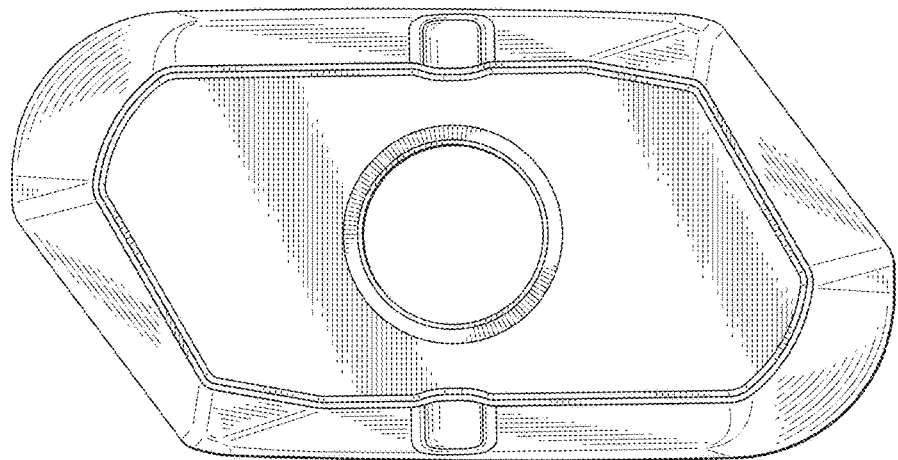


FIG.3

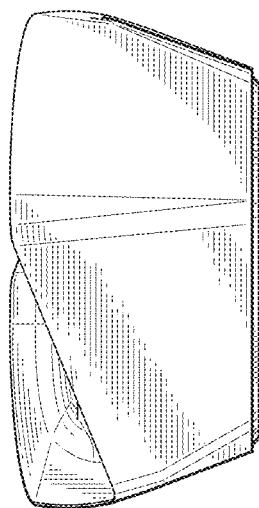


FIG.4

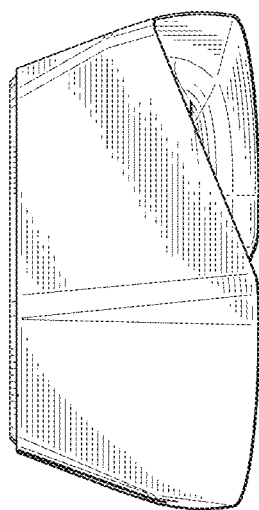


FIG.5

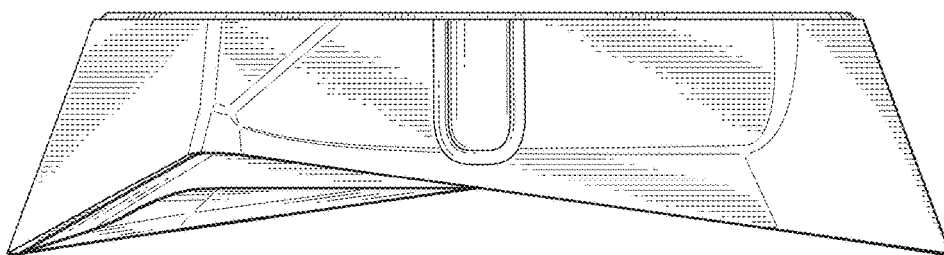


FIG.6

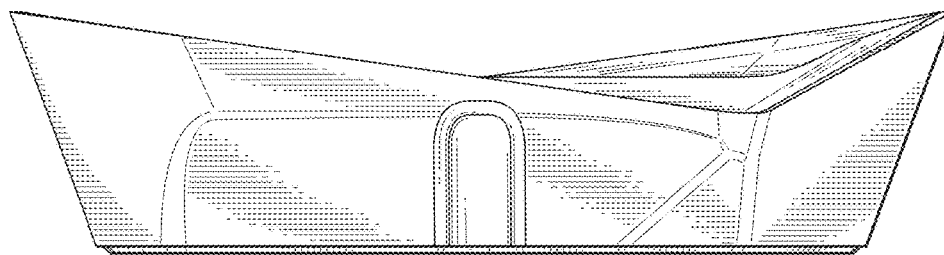


FIG.7

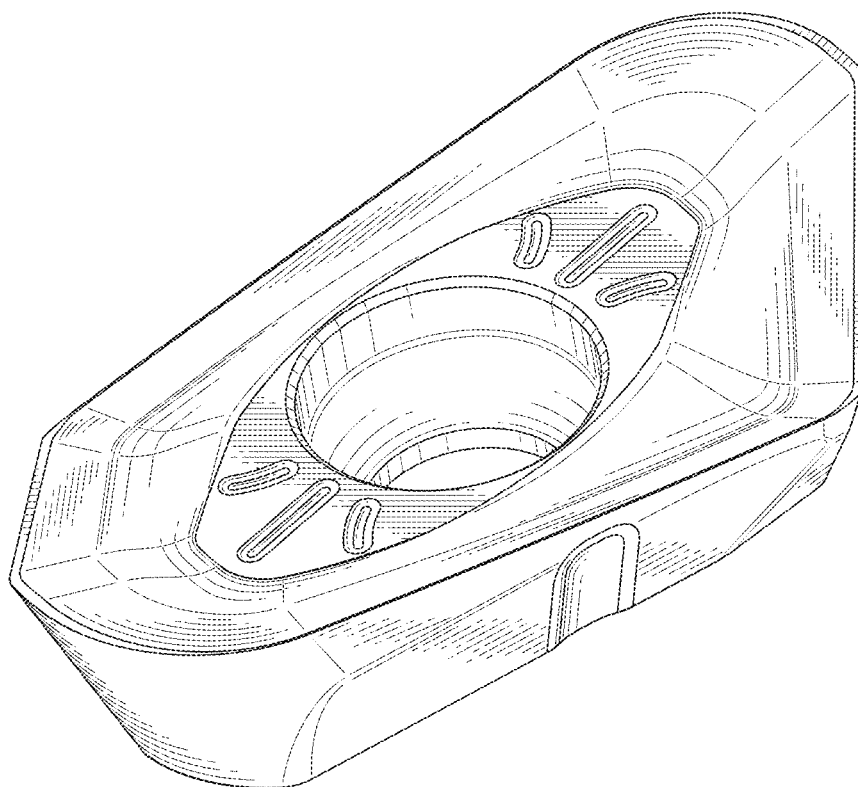


FIG.8

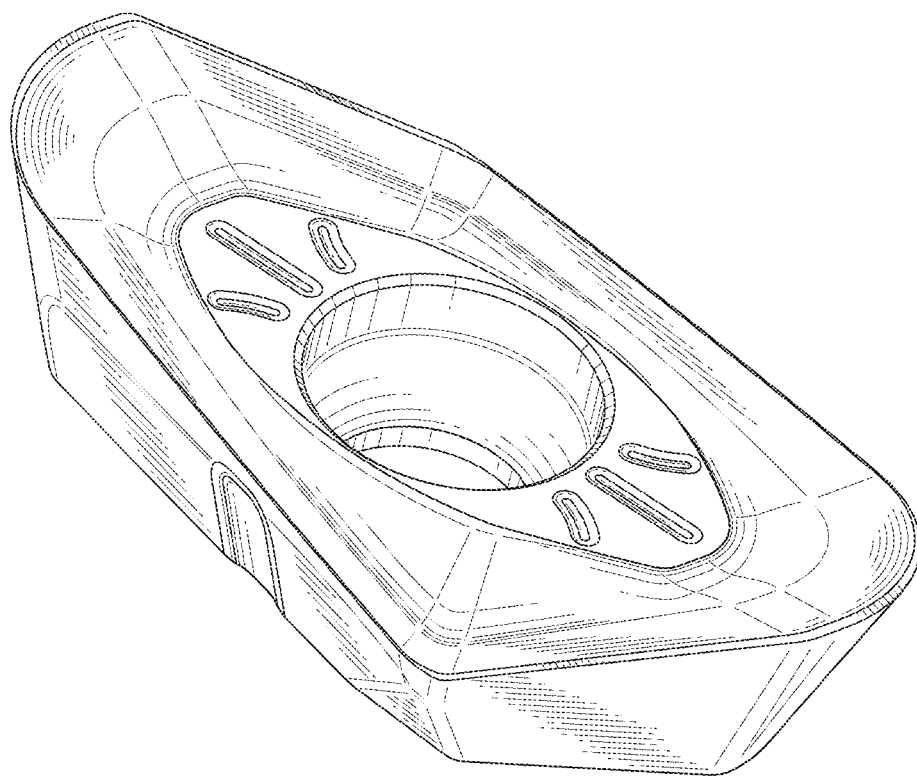


FIG.9

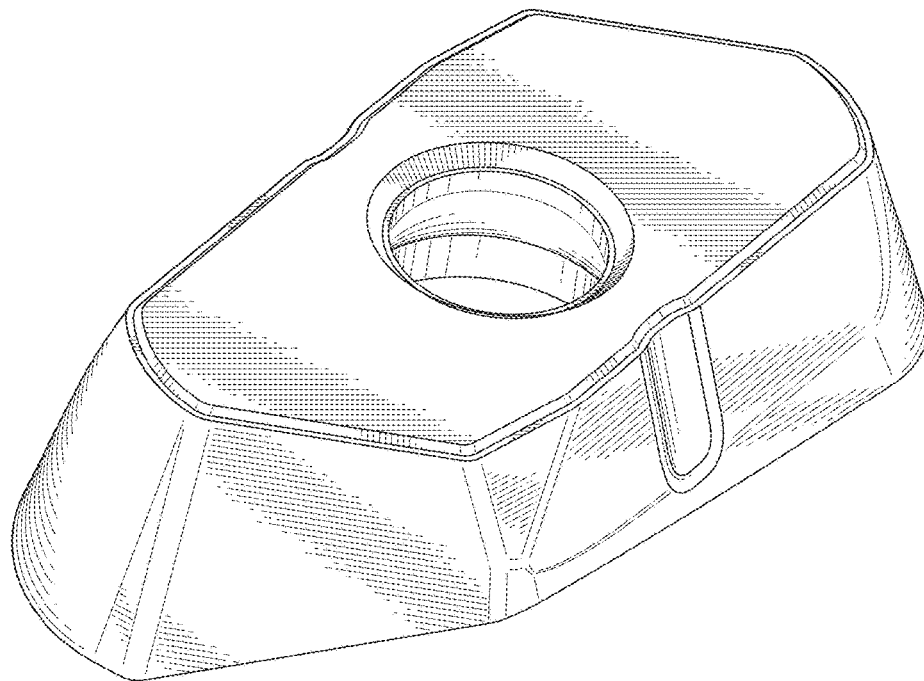


FIG.10

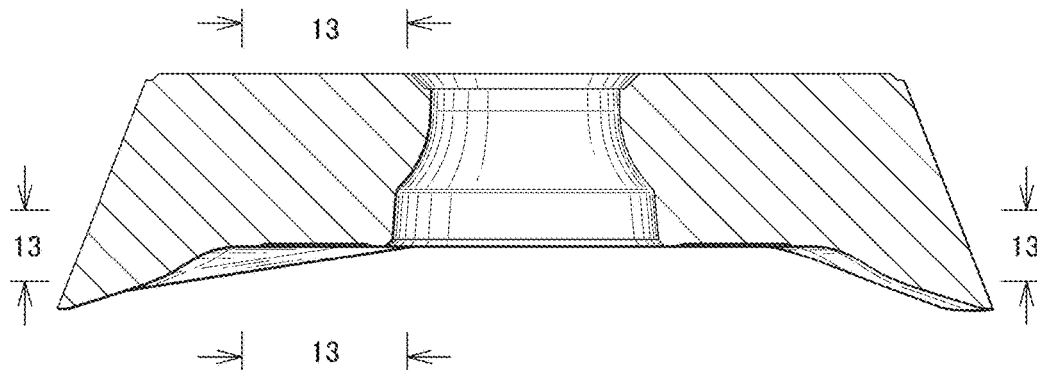


FIG.11

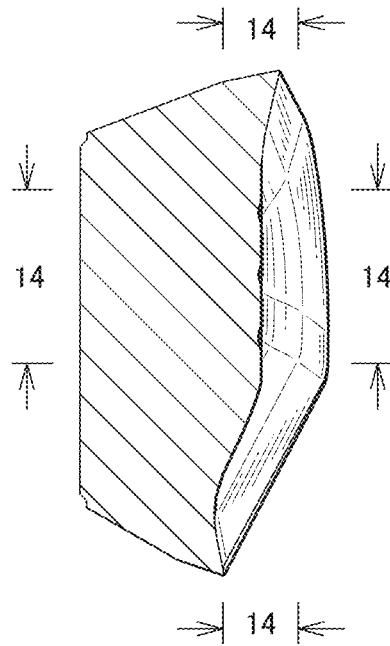


FIG.12

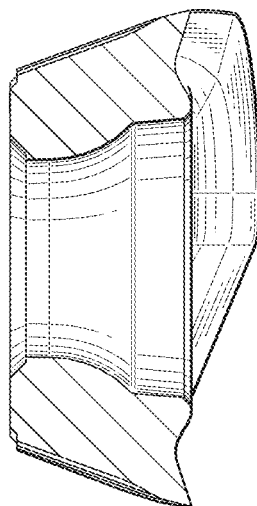


FIG.13

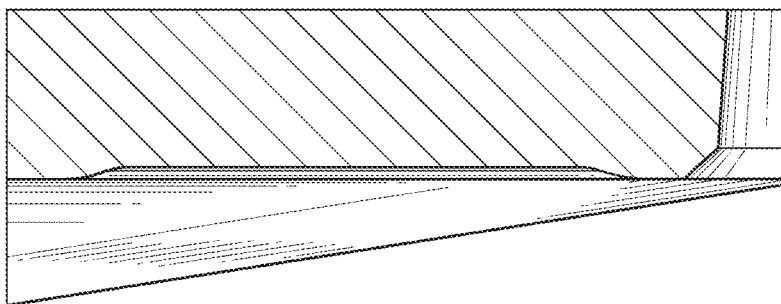


FIG.14

