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(12) United States Design Patent

Michelet et al.

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(45) Date of Patent: ** Apr. 3, 2012

(54) **CUTTING INSERT FOR METAL CHIP REMOVAL**

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(73) Assignee: **Seco Tools AB**, Fagersta (SE)

(**) Term: **14 Years**

(21) Appl. No.: **29/357,637**

(22) Filed: **Mar. 15, 2010**

Related U.S. Application Data

(60) Continuation of application No. 29/329,366, filed on Dec. 13, 2008, now abandoned, and a division of application No. 29/340,731, filed on Jul. 24, 2009, now Pat. No. Des. 635,163.

(30) **Foreign Application Priority Data**

Jun. 26, 2008 (EM) 000958558

(51) **LOC (9) Cl.** **15-09**
(52) **U.S. Cl.** **D15/139**
(58) **Field of Classification Search** D15/138, D15/139, 140; 407/35, 42, 112–119
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D341,604	S *	11/1993	Hessman	D15/139
7,220,083	B2 *	5/2007	Festeau et al.	407/113
7,232,279	B2 *	6/2007	Smilovici et al.	407/113
2005/0084342	A1 *	4/2005	Festeau et al.	407/113
2006/0039763	A1 *	2/2006	Lof et al.	407/114
2006/0216122	A1 *	9/2006	Engstrom et al.	407/114
2007/0189864	A1 *	8/2007	Festeau et al.	407/113
2009/0290946	A1 *	11/2009	Zastrozynski	407/114
2010/0034602	A1 *	2/2010	Sung et al.	407/113

* cited by examiner

Primary Examiner — Patricia Palasik
(74) *Attorney, Agent, or Firm* — WRB-IP LLP

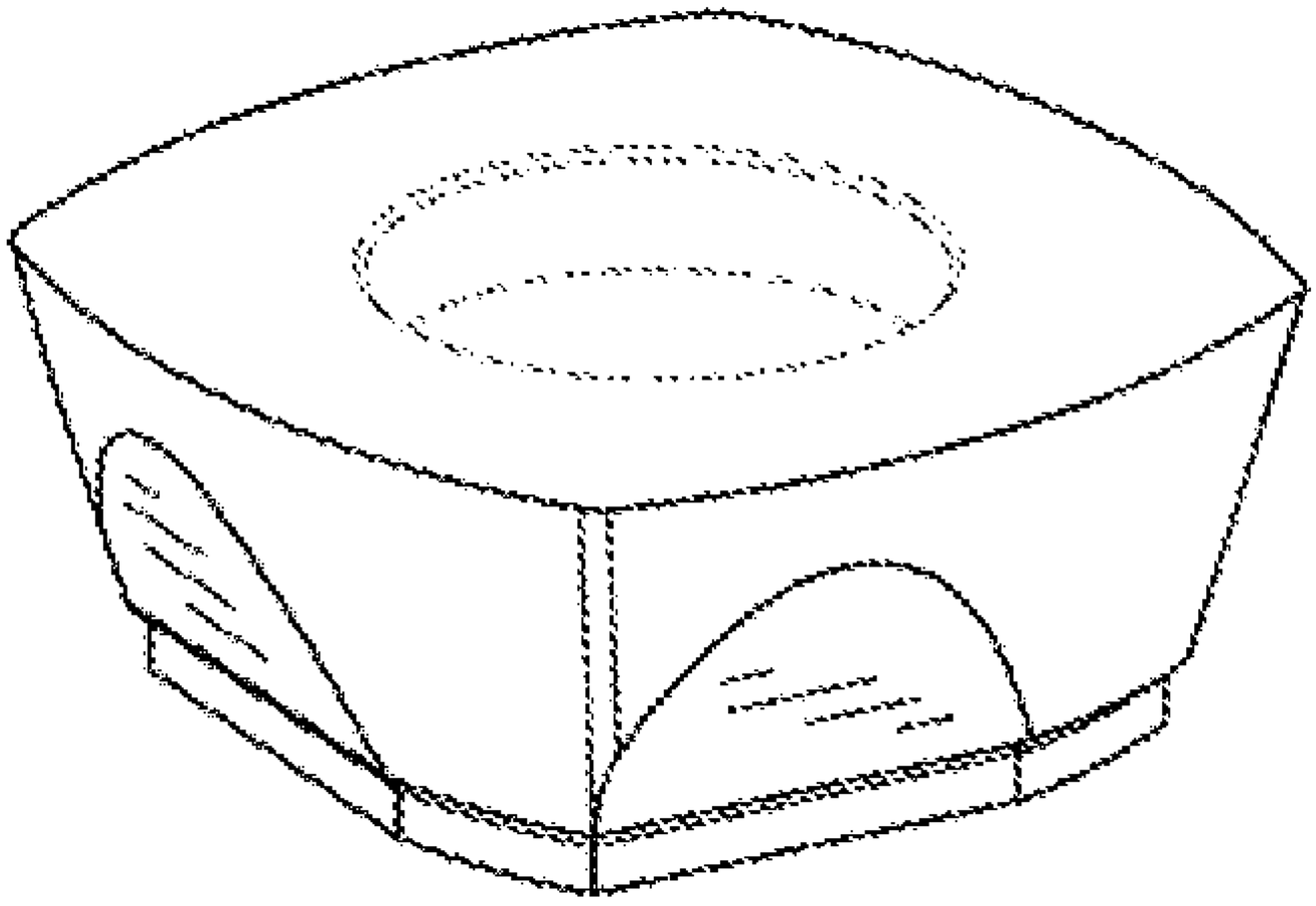
(57) **CLAIM**

The ornamental design for a cutting insert for metal chip removal, as shown and described.

DESCRIPTION

FIG. **1** is a top, front perspective view of a cutting insert for metal chip removal showing a new design.
FIG. **2** is a top plan view thereof.
FIG. **3** is a left elevational view thereof.
FIG. **4** is a right elevational view thereof.
FIG. **5** is a front elevational view thereof.
FIG. **6** is a rear elevational view thereof; and,
FIG. **7** is a bottom plan view thereof.
FIG. **8** is a top, front perspective view of a second embodiment of the cutting insert for metal chip removal shown in FIGS. **1-7**.
FIG. **9** is a top plan view thereof.
FIG. **10** is a left elevational view thereof.
FIG. **11** is a right elevational view thereof.
FIG. **12** is a front elevational view thereof.
FIG. **13** is a rear elevational view thereof; and,
FIG. **14** is a bottom plan view thereof.
The broken lines in the drawings depict unclaimed environmental subject matter.
The present designs relate to cutting inserts for metal chip removal and, more particularly, to families of cutting inserts usable in the same toolholders, preferably in milling cutters.

1 Claim, 4 Drawing Sheets



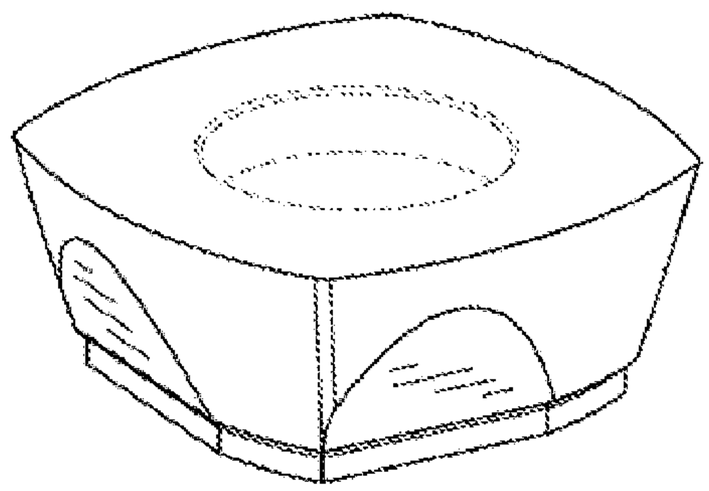


FIG. 1

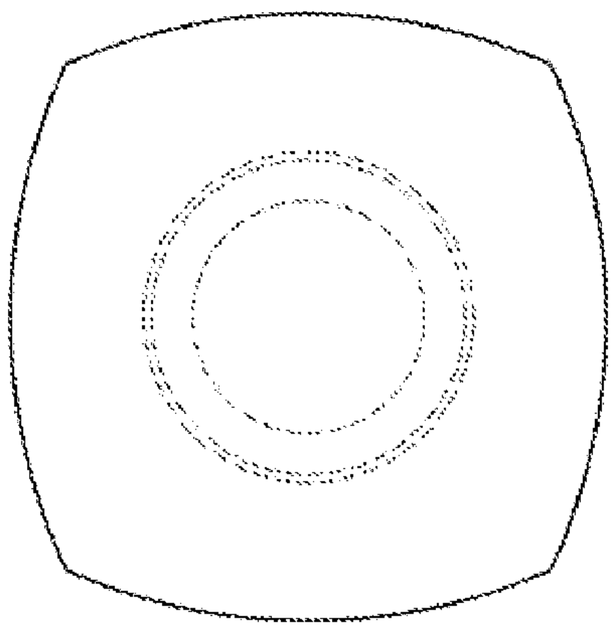


FIG. 2

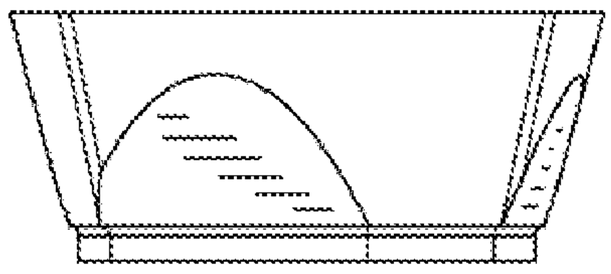


FIG. 3

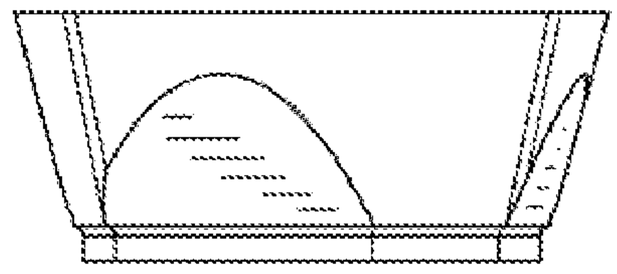


FIG. 4

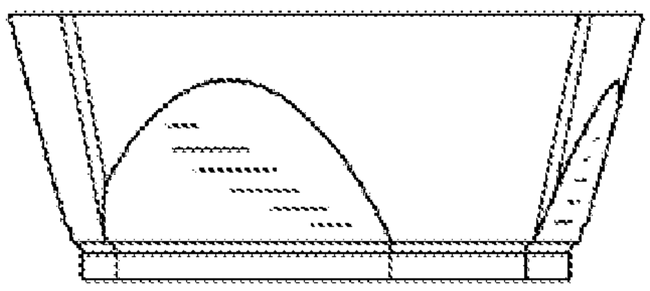


FIG. 5

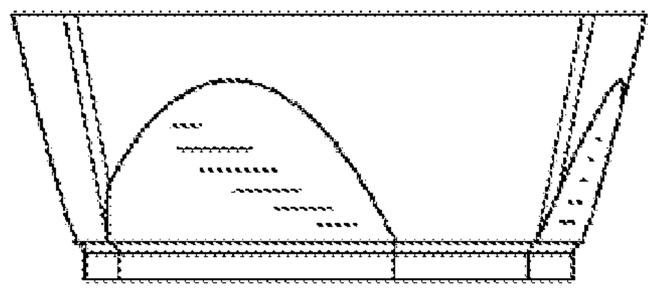


FIG. 6

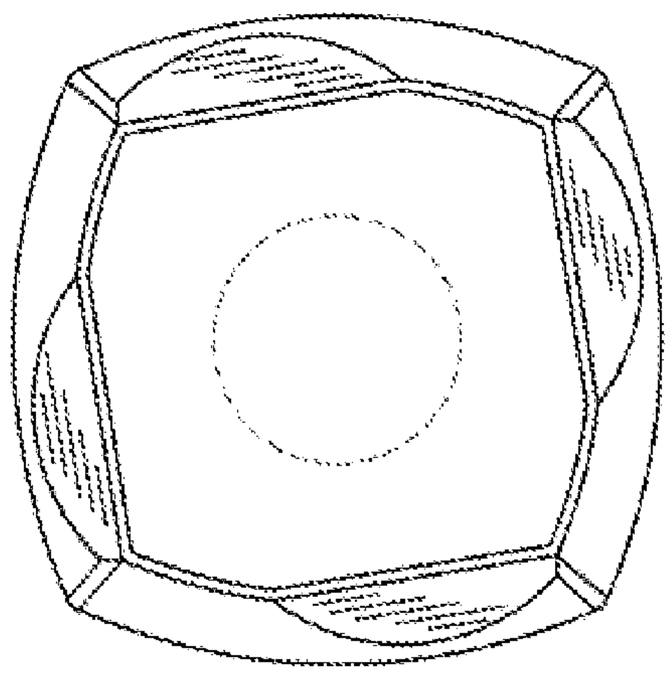


FIG. 7

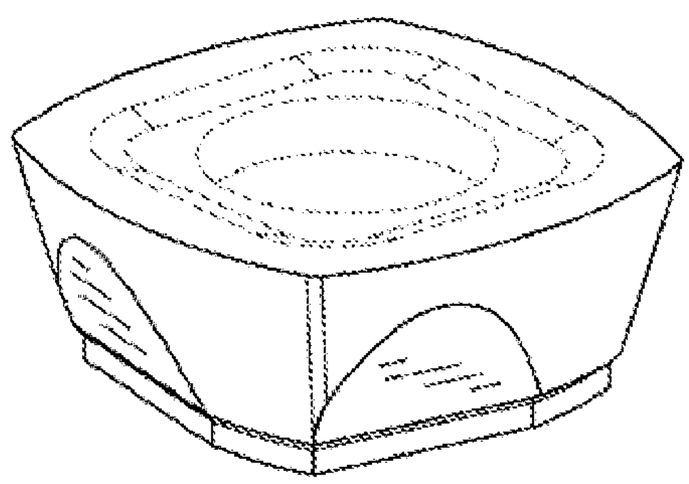


FIG. 8

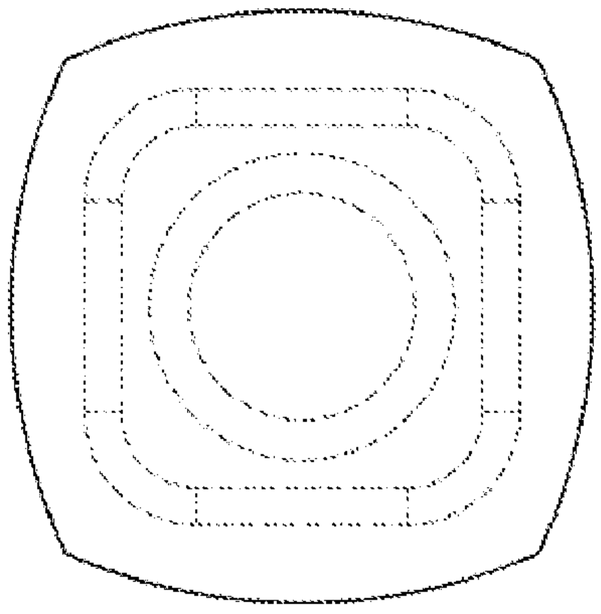


FIG. 9

FIG. 10

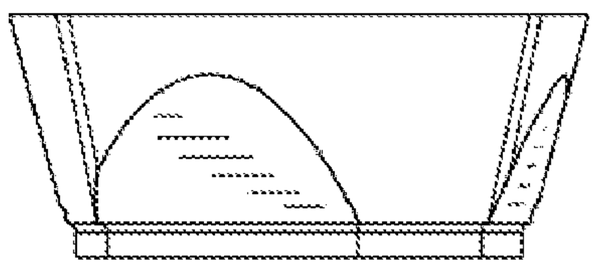


FIG. 11

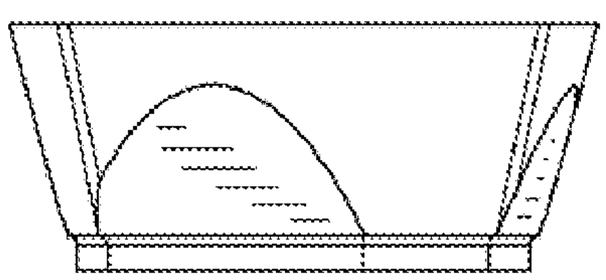


FIG. 12

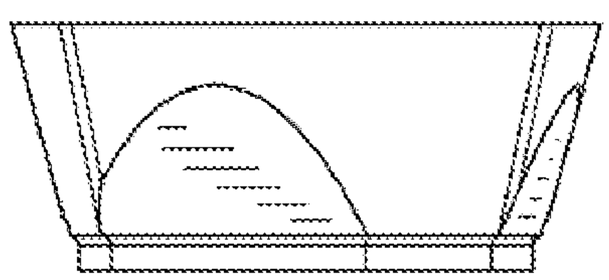


FIG. 13

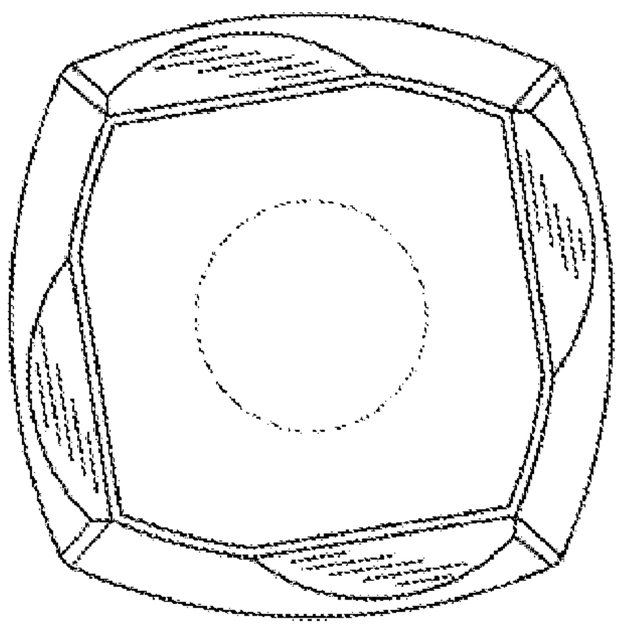


FIG. 14