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

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(54) **CUTTING TOOL WITH A CEMENTED
TUNGSTEN CARBIDE INSERT AND RING**

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6,758,530 B2	7/2004	Sollami	
6,764,140 B2 *	7/2004	Carson et al.	299/79.1
6,786,557 B2 *	9/2004	Montgomery, Jr.	299/104
6,824,225 B2 *	11/2004	Stiffler	299/104
7,195,321 B1 *	3/2007	Sollami	299/104
7,204,560 B2 *	4/2007	Mercier et al.	299/105
7,455,484 B2 *	11/2008	Bauschulte et al.	407/114
2002/0029910 A1 *	3/2002	Heinrich et al.	175/394
2002/0175555 A1 *	11/2002	Mercier	299/107
2003/0047985 A1 *	3/2003	Stiffler	299/102

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

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(21) Appl. No.: **29/290,431**

FOREIGN PATENT DOCUMENTS

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(51) **LOC (9) Cl.** **15-09**

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(52) **U.S. Cl.** **D15/139**

(58) **Field of Classification Search** D15/131,
D15/138, 139, 140; 299/10, 104, 105, 106,
299/107, 111, 113, 126; D9/453, 437; D23/213
See application file for complete search history.

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(57) **CLAIM**

We claim the ornamental design for a cutting tool with a cemented tungsten carbide insert and ring, as shown and described.

(56) **References Cited**

U.S. PATENT DOCUMENTS

457,020 A *	8/1891	Williams	123/55.7
3,627,381 A	12/1971	Krekeler	
3,788,791 A *	1/1974	Munz	425/563
4,194,791 A *	3/1980	Montgomery et al.	299/105
4,201,421 A *	5/1980	Den Besten et al.	299/107
4,497,520 A *	2/1985	Ojanen	299/111
4,682,987 A	7/1987	Brady et al.	
4,688,856 A *	8/1987	Elfgen	299/104
4,938,538 A	7/1990	Larsson et al.	
RE33,494 E *	12/1990	Hindmarsh et al.	299/104
5,161,859 A *	11/1992	Larsson et al.	299/111
5,417,475 A	5/1995	Graham et al.	
6,113,195 A *	9/2000	Mercier et al.	299/104
6,196,636 B1 *	3/2001	Mills et al.	299/111
D446,231 S *	8/2001	Kuraoka et al.	D15/144
6,371,567 B1 *	4/2002	Sollami	299/104
RE38,151 E *	6/2003	Penkunas et al.	299/111
6,585,327 B2 *	7/2003	Sollami	299/107
6,709,065 B2 *	3/2004	Peay et al.	299/104

DESCRIPTION

FIG. 1 is a perspective view of a cutting tool with a cemented tungsten carbide insert and ring in accordance with the present invention;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

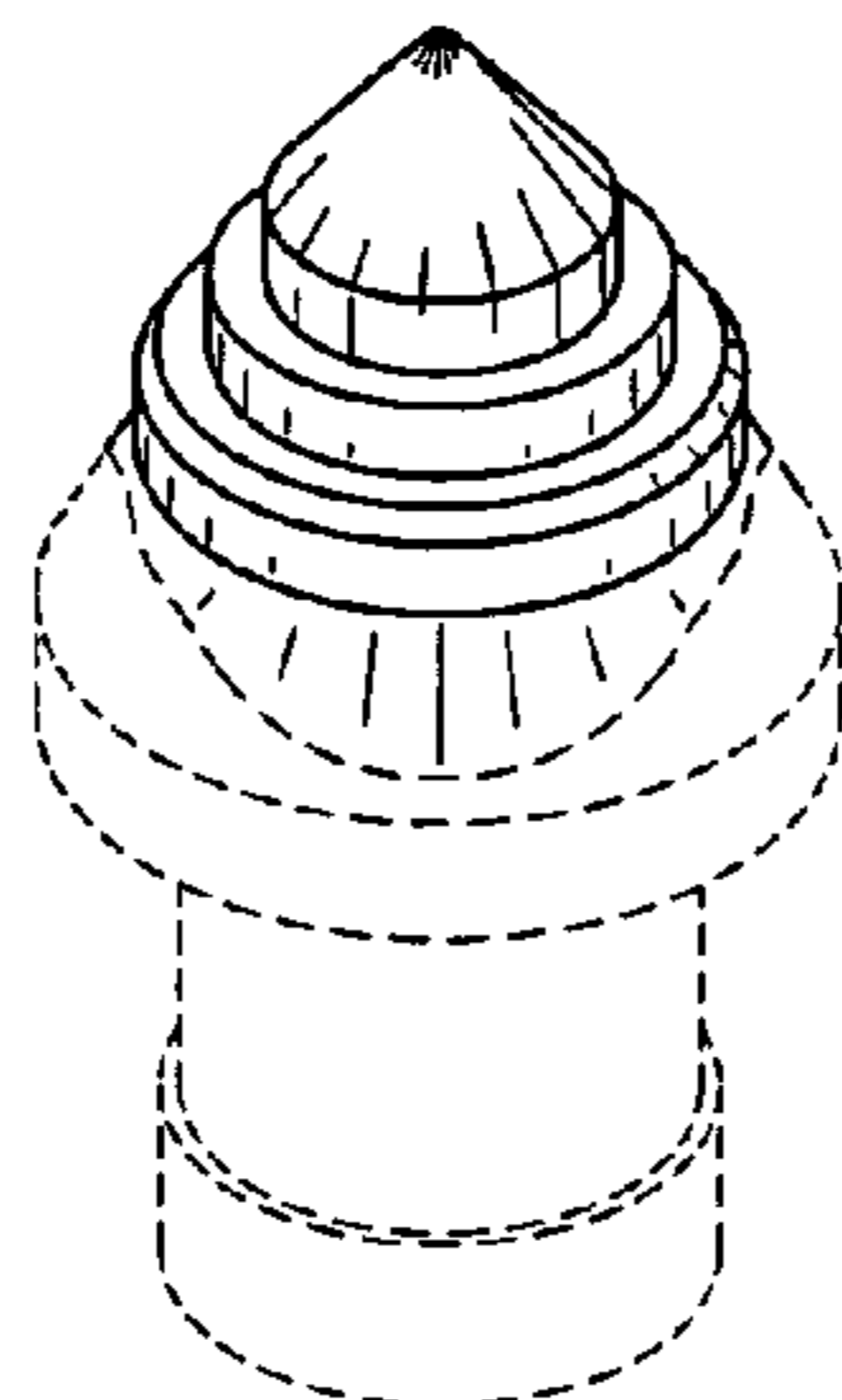
FIG. 5 is a right side elevational view thereof; and

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

The broken lines in the drawings are for illustrative purposes only and form no part of the claimed design.

1 Claim, 1 Drawing Sheet



US D627,804 S

Page 2

U.S. PATENT DOCUMENTS

2004/0026132 A1* 2/2004 Hall et al. 175/427
2005/0035649 A1* 2/2005 Mercier et al. 299/105
2005/0212345 A1* 9/2005 Sleep et al. 299/105
2006/0238016 A1* 10/2006 Ritchey 299/107
2007/0257545 A1* 11/2007 Mouthaan et al. 299/107
2008/0030066 A1* 2/2008 Mercier et al. 299/105
2008/0042484 A1* 2/2008 Majagi et al. 299/111
2008/0143168 A1* 6/2008 Ferreri et al. 299/104

2008/0164747 A1* 7/2008 Weaver et al. 299/10
2009/0026829 A1* 1/2009 Weaver 299/10

FOREIGN PATENT DOCUMENTS

DE 30 05 684 8/1981
EP 0 122 893 10/1984
GB 2 004 315 3/1979
SU 899916 5/1980

* cited by examiner

Fig. 1

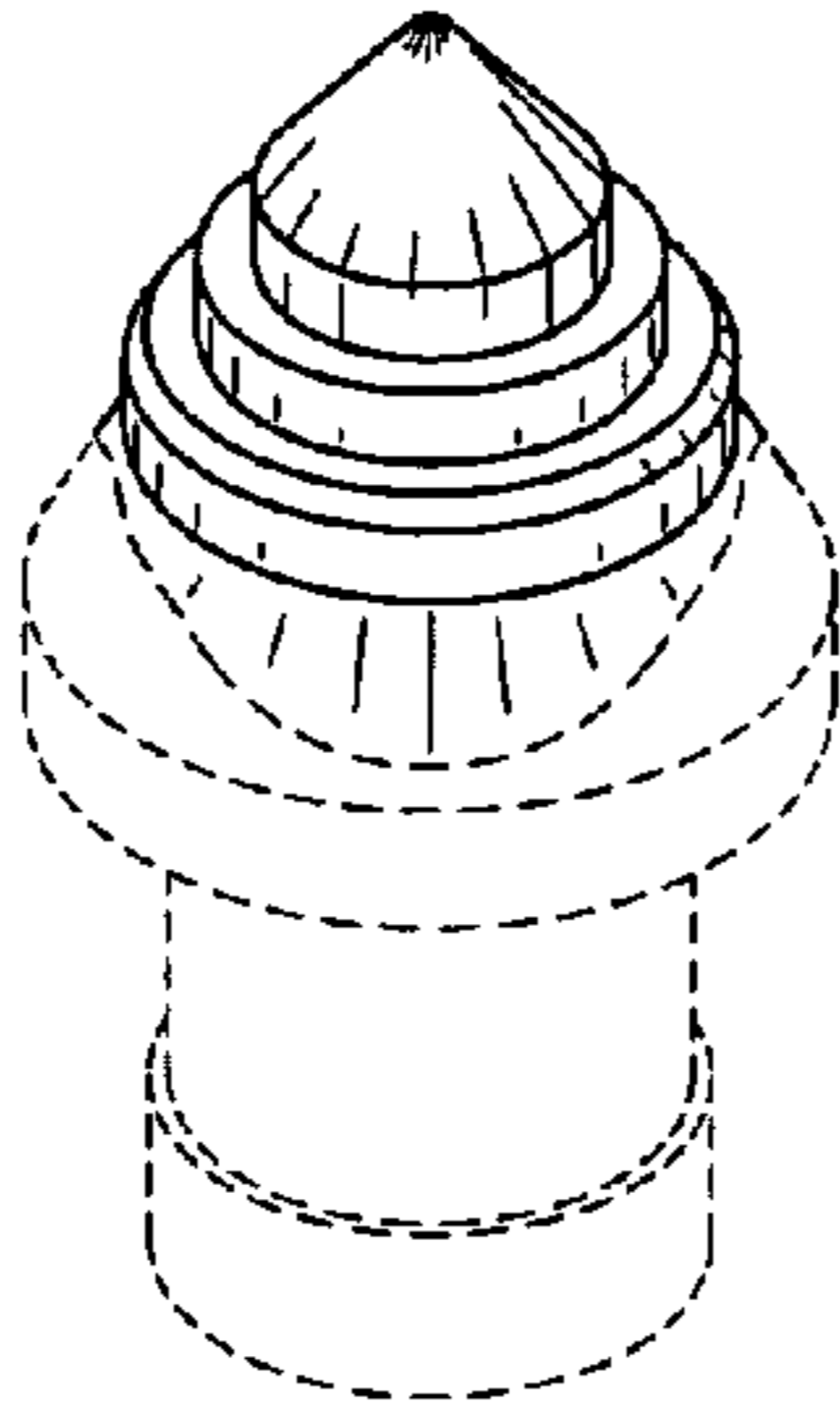


Fig. 2

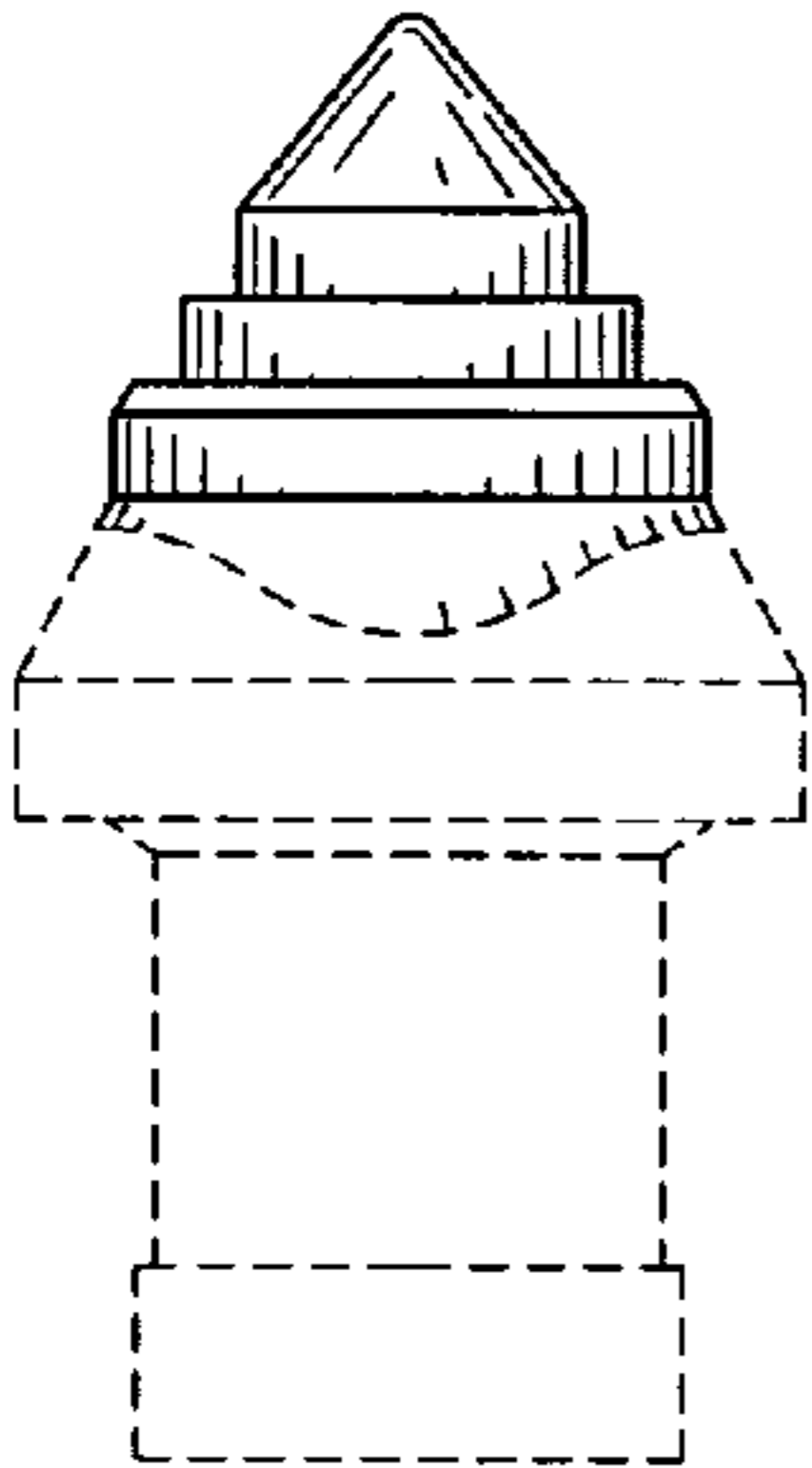


Fig. 3

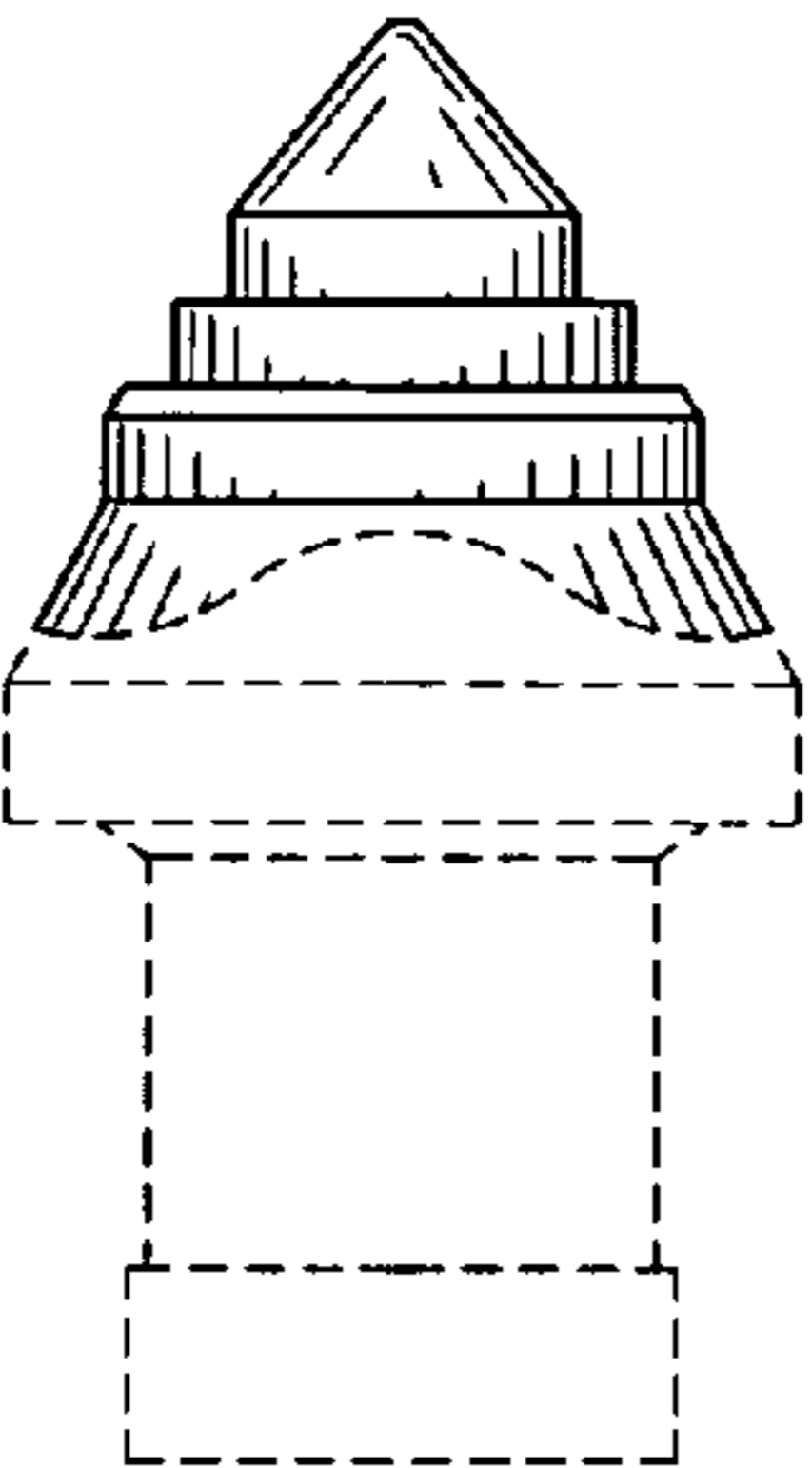


Fig. 4

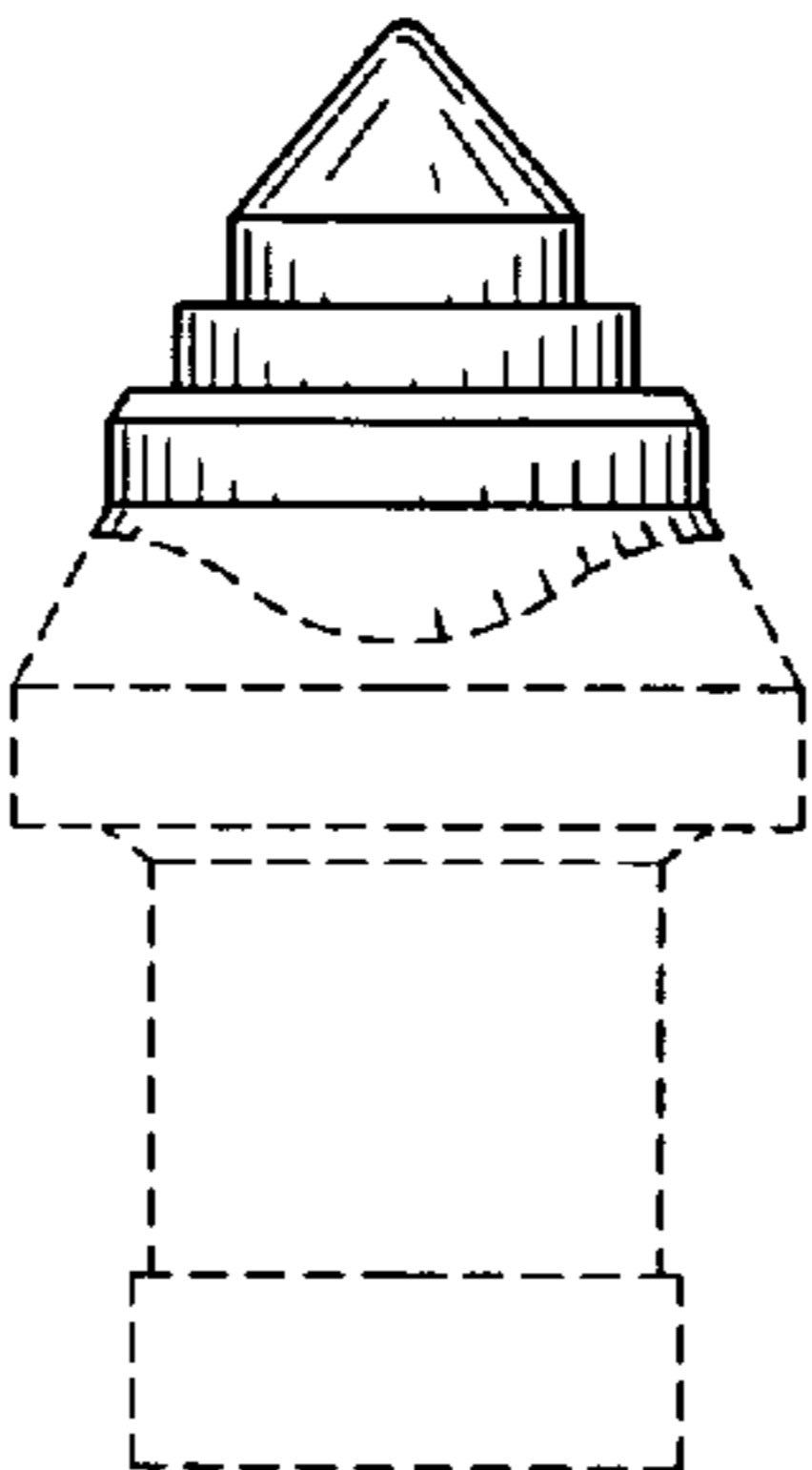


Fig. 5

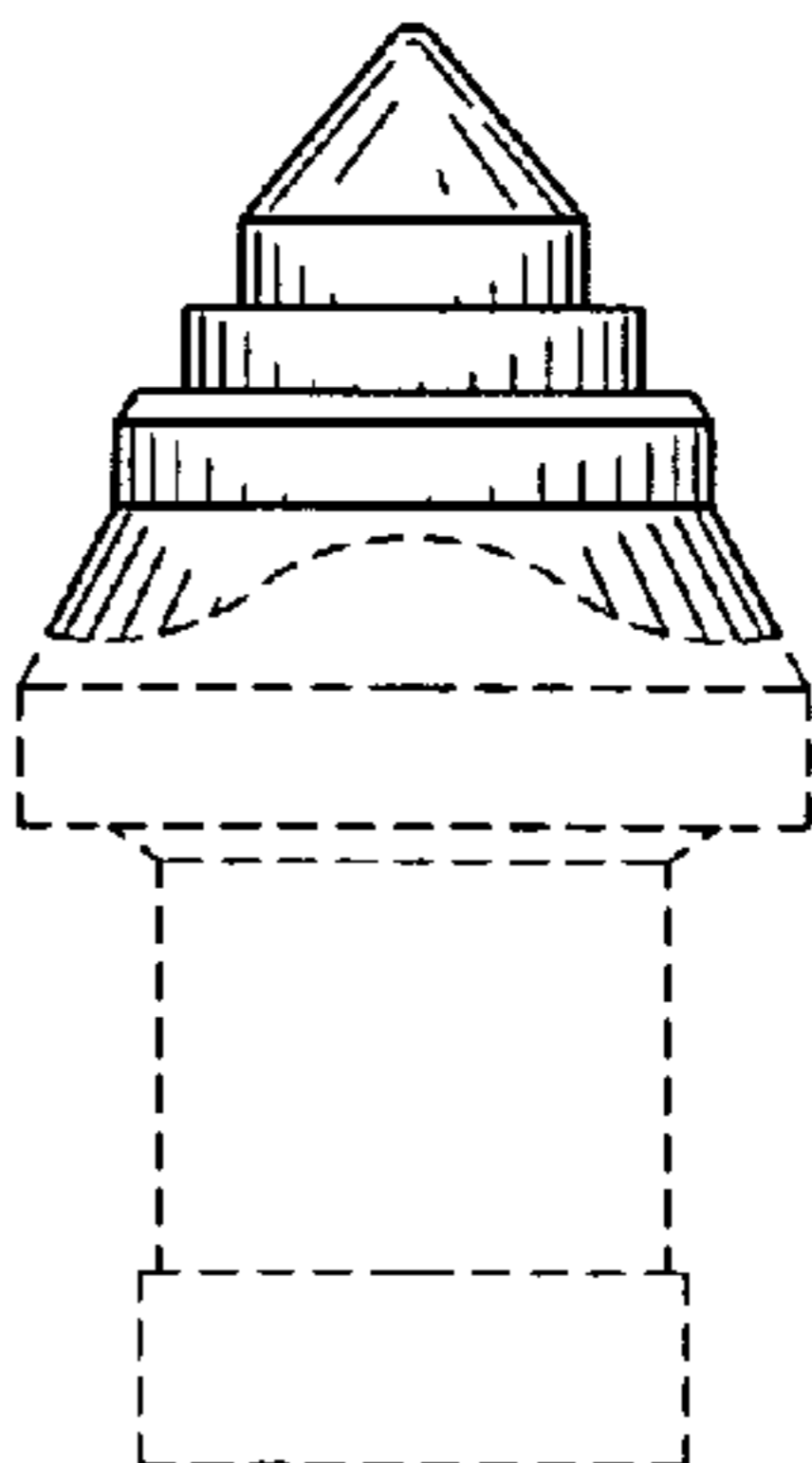


Fig. 6

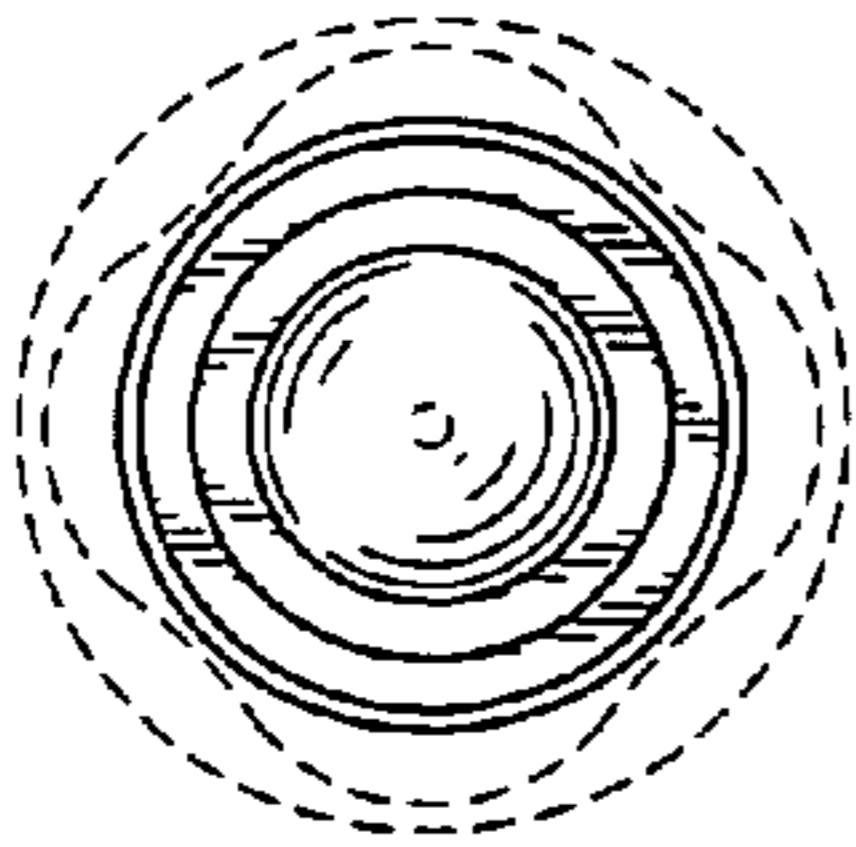


Fig. 7

