



US00D487384S

(12) **United States Design Patent** (10) **Patent No.:** **US D487,384 S**  
**Neitzell et al.** (45) **Date of Patent:** **\*\* \*Mar. 9, 2004**

- (54) **CORDED RECIPROCATING SAW** 2,783,790 A 3/1957 Keesling
- 2,793,661 A 5/1957 Olson
- (75) Inventors: **Roger Dean Neitzell**, North Prairie, WI (US); **David Brian Griep**, Rubicon, WI (US); **Thomas Paul James**, Oconomowoc, WI (US); **Thomas R. Bednar**, Pewaukee, WI (US) 2,822,005 A 2/1958 Lee et al.
- 2,879,815 A 3/1959 Papworth
- 2,946,358 A 7/1960 Bruck
- 2,961,016 A 11/1960 Papworth
- 2,984,757 A 5/1961 Papworth
- 3,028,890 A 4/1962 Atkinson et al.
- (73) Assignee: **Milwaukee Electric Tool Corporation**, Brookfield, WI (US) 3,044,171 A 7/1962 Cecere
- 3,322,170 A 5/1967 Persson
- 3,580,342 A 5/1971 Matthews
- (\*) Notice: This patent is subject to a terminal disclaimer. 3,602,052 A 8/1971 Frost
- 3,768,359 A 10/1973 Koefflerlein
- 3,785,053 A 1/1974 Michaelson
- (\*\*) Term: **14 Years** 3,795,168 A 3/1974 Spachner et al.
- 3,848,647 A 11/1974 Fell
- 3,876,015 A 4/1975 Kivela
- (21) Appl. No.: **29/163,513** 3,945,120 A 3/1976 Ritz
- (22) Filed: **Jul. 5, 2002** 4,036,089 A 7/1977 Criblez
- 4,137,632 A 2/1979 Pfanzner
- 4,238,884 A 12/1980 Walton, II
- 4,240,204 A 12/1980 Walton, II et al.
- 4,255,858 A 3/1981 Getts
- 4,262,564 A 4/1981 Kaltbach
- 4,287,800 A 9/1981 Persson
- 4,522,270 A \* 6/1985 Kishi ..... 173/217
- 4,522,276 A 6/1985 Fogg et al.
- 4,570,500 A 2/1986 Richter
- 4,785,540 A 11/1988 Arvidsson
- 4,912,348 A 3/1990 Maki et al.
- 4,912,349 A \* 3/1990 Chang ..... 310/50
- 4,976,173 A \* 12/1990 Yang ..... 81/54
- 4,984,369 A 1/1991 Flint et al.
- 4,991,298 A 2/1991 Matre
- 4,998,353 A 3/1991 Fukuda et al.
- 5,058,470 A 10/1991 Frohlich
- D323,274 S \* 1/1992 Sasaki et al. .... D8/61
- 5,079,844 A 1/1992 Palm
- 5,089,738 A 2/1992 Bergqvist
- 5,134,777 A 8/1992 Meyer et al.
- 5,193,281 A 3/1993 Kasten
- 5,205,043 A 4/1993 Batt et al.
- 5,533,581 A 7/1996 Barth et al.
- D376,083 S \* 12/1996 Verdura et al. .... D8/61
- D377,303 S 1/1997 Nagel
- 5,595,250 A 1/1997 Bourke
- 5,598,636 A 2/1997 Stolzer
- D380,658 S \* 7/1997 Bruno et al. .... D8/61
- D382,458 S \* 8/1997 Hogue et al. .... D8/70

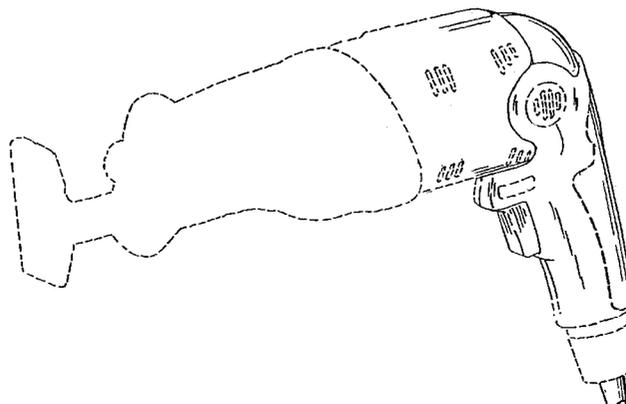
**Related U.S. Application Data**

- (63) Continuation of application No. 29/148,365, filed on Sep. 18, 2001, which is a continuation of application No. 29/132,154, filed on Nov. 2, 2000, now Pat. No. Des. 447,924.
- (51) **LOC (7) Cl.** ..... **08-03**
- (52) **U.S. Cl.** ..... **D8/64**
- (58) **Field of Search** ..... D8/60, 61, 62, D8/68, 64, 67; 81/54, 57, 57.11, 57.13, 57.14, 57.29, 57.39, 57.42, 58, 60, 61, 62, 63, 63.1, 63.2, 177.1, 177.4, 177.6, 177.8, 177.85, 177.9, 469, 474; 173/169, 170, 182, 216, 217; 310/50

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 1,217,521 A 2/1917 Snyder
- 1,406,071 A 2/1922 Pavelka
- 1,793,053 A 2/1931 Cahill et al.
- 2,337,769 A 12/1943 Redenbo
- 2,436,692 A 2/1948 Greene
- 2,619,132 A 11/1952 Pierce
- 2,630,148 A 3/1953 Ferguson
- 2,668,567 A 2/1954 Olson
- 2,781,800 A 2/1957 Papworth



D386,658	S	11/1997	Jansson et al.	
D393,194	S	* 4/1998	Hogue et al.	D8/70
5,755,293	A	5/1998	Bourke	
D396,175	S	* 7/1998	Chung	D8/62
D401,128	S	11/1998	Zurwelle	
5,832,611	A	11/1998	Schmitz	
5,855,070	A	* 1/1999	Grabowski	30/376
D408,699	S	* 4/1999	Zurwelle	D8/64
5,940,977	A	8/1999	Moore, Jr.	
D418,037	S	12/1999	Zeiler	
D418,729	S	* 1/2000	Snider	D8/61
D419,413	S	* 1/2000	Heun	D8/68
D424,902	S	* 5/2000	Gildersleeve et al.	D8/68
D426,126	S	* 6/2000	Schultz	D8/61
D428,787	S	* 8/2000	Smolinski et al.	D8/70
6,102,134	A	* 8/2000	Alsrue	173/217
6,108,916	A	8/2000	Zeiler et al.	
6,138,364	A	10/2000	Schmitz	
6,139,359	A	10/2000	Fuhreck et al.	
D433,907	S	11/2000	Fuchs et al.	
D434,296	S	* 11/2000	Ogasawara	D8/62
D434,627	S	* 12/2000	Buck	D8/64
D436,011	S	1/2001	Fuchs et al.	
6,173,500	B1	1/2001	Feldmann	
6,179,259	B1	1/2001	Schioldager	
D447,924	S	9/2001	Neitzell	
6,301,789	B1	10/2001	Zeiler	
6,364,033	B1	4/2002	Hung et al.	

FOREIGN PATENT DOCUMENTS

DE	412773	4/1925
DE	803013	2/1951
DE	7442904	9/1975
DE	7904242	7/1980
DE	3828785	4/1989
DE	4103809	8/1991
DE	4116343	11/1992
EP	0072282	2/1983
EP	0125101	11/1984
EP	0561473	9/1993
EP	0768138	4/1997
WO	WO 92/05003	4/1992
WO	WO 92/20491	11/1992
WO	WO 94/00264	1/1994

OTHER PUBLICATIONS

Milwaukee Electric Tool, Catalog No. 6538-1, 6539-1, 6540-1, 6546-1 and 6547-1, Heavy Duty Cordless Screwdrivers Operator's Manual.

Black & Decker Instruction Manual for VersaPak 7.2 Volt Cordless Multi-Purpose Saw VP650.

Kress Operating Instructions for APS 132.

Makita Instruction Manual for Cordless Recipro Saw Model 4390D and Model 4390DW With Fast Charger, Feb. 19, 1991.

Porter Cable Instruction Manual for Double Insulated Variable Speed Tiger Cub All-Purpose Saw Model 647, 1990/1991.

Makita News (Internet Press Release) New Recipro Saw with the Best Blade Change on the Market (2 pages), Aug. 1, 2000.

Makita SAWS (Internet Product Catalog) Recipro Saws JR3030T Variable Speed, Aug. 1, 2000.

Makita SAWS (Internet Product Catalog) Recipro Saws JR3020 Recipro Saw, Orbital, Variable Speed, Aug. 1, 2000.

Makita CORDLESS (Internet Product Catalog) JR180DZ Cordless Recipro Saw, Variable Speed, Aug. 1, 2000.

Makita CORDLESS (Internet Product Catalog) JR180DWB Cordless Recipro Saw, Variable Speed, Aug. 1, 2000.

Black & Decker Product Description (Internet) 7.2 Volt VersaPak Cordless Multi-Purpose Saw VP650, Aug. 1, 2000.

Bosch Sabre Plus (Internet) In-Line Grip Jigsaw 3294EVS, Jul. 30, 2000.

General Safety Instructions for Operating Electric Tools.

Black & Decker/Power Tools Catalog (Internet), 2002-2002.

Pivot Drive Model #VP 750), Black & Decker, 2000.

Cordless Drills (Model #VPD 850K), Black & Decker, 2000.

Reciprocating Saw (Model #CRS 144), Black & Decker, 2000.

Reversible Batter, Milwaukee Electric Tool Corporation, 2000, 18 Volt 1/2" Driver Drills (Model # 0521-21\*(Kit), #0521-22 (Kit), #0522-21\*(Kit), 0522-22(Kit), 8522-24 (Kit).

\* cited by examiner

Primary Examiner—Doris V. Coles

Assistant Examiner—Elizabeth A. Albert

(74) Attorney, Agent, or Firm—Michael Best & Friedrich LLP

(57) CLAIM

We claim the ornamental design for a corded reciprocating saw, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a corded reciprocating saw embodying the present invention and illustrating one position of a hand grip;

FIG. 2 is a left side view of the corded reciprocating saw shown in FIG. 1;

FIG. 3 is a top view of the corded reciprocating saw shown in FIG. 1;

FIG. 4 is a right side view of the corded reciprocating saw shown in FIG. 1;

FIG. 5 is a bottom view of the corded reciprocating saw shown in FIG. 1;

FIG. 6 is a front view of the corded reciprocating saw shown in FIG. 1;

FIG. 7 is a rear view of the corded reciprocating saw shown in FIG. 1;

FIG. 8 is a perspective view of a corded reciprocating saw embodying the present invention and illustrating an alternate position of the hand grip;

FIG. 9 is a left side view of the corded reciprocating saw shown in FIG. 8;

FIG. 10 is a top view of the corded reciprocating saw shown in FIG. 8;

FIG. 11 is a right side view of the corded reciprocating saw shown in FIG. 8;

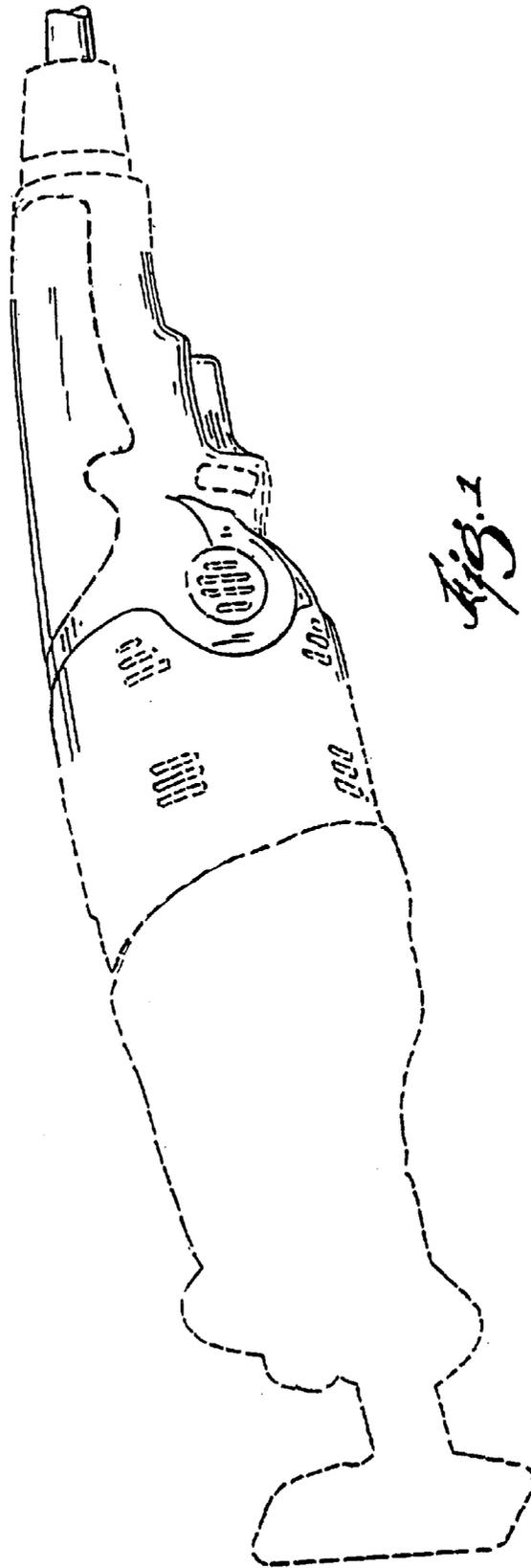
FIG. 12 is a bottom view of the corded reciprocating saw shown in FIG. 8;

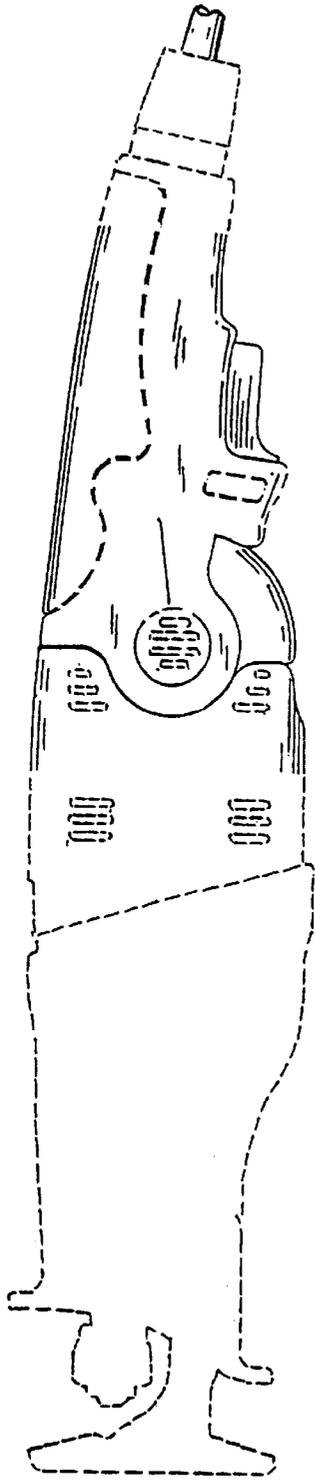
FIG. 13 is a front view of the corded reciprocating saw shown in FIG. 8; and,  
FIG. 14 is a rear view of the corded reciprocating saw shown in FIG. 8.

The present application is directed to the shape and contour of the design illustrated in the drawings. Other features of

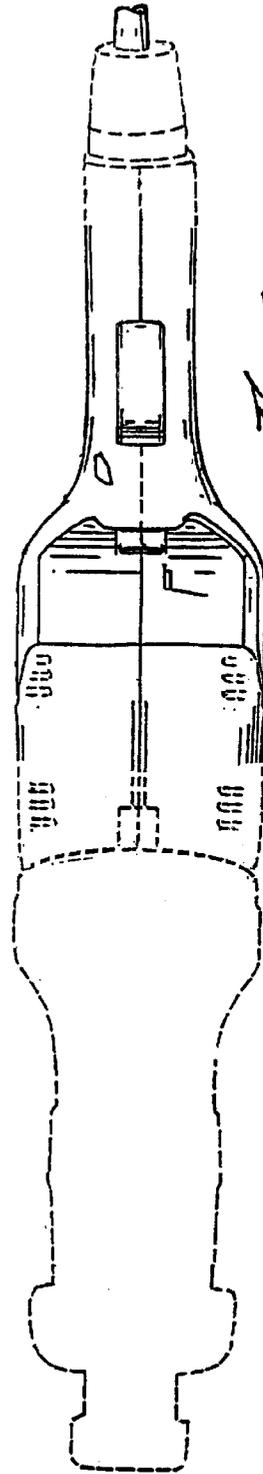
the drawings, specifically, portions of the reciprocating saw shown in broken lines, are not considered part of the design sought to be patented.

**1 Claim, 8 Drawing Sheets**

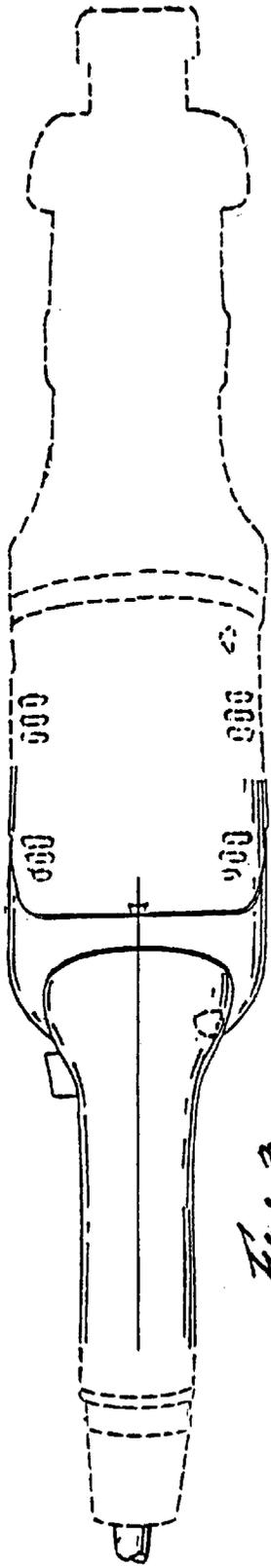




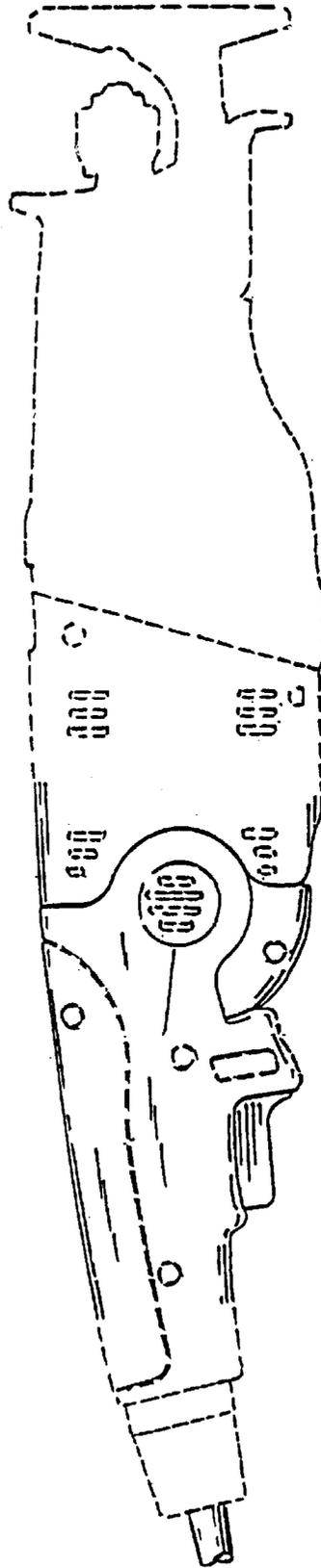
*Fig. 2*



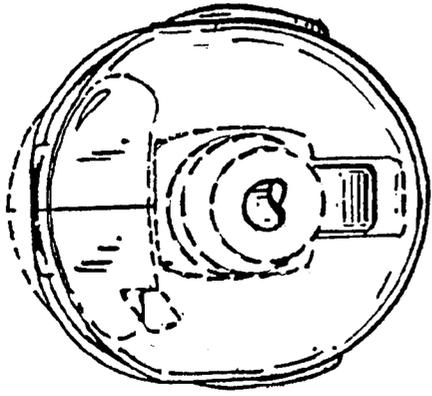
*Fig. 5*



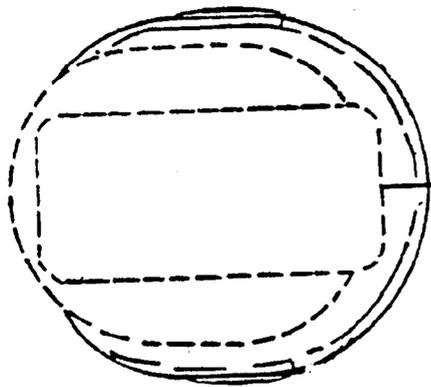
*Fig. 3*



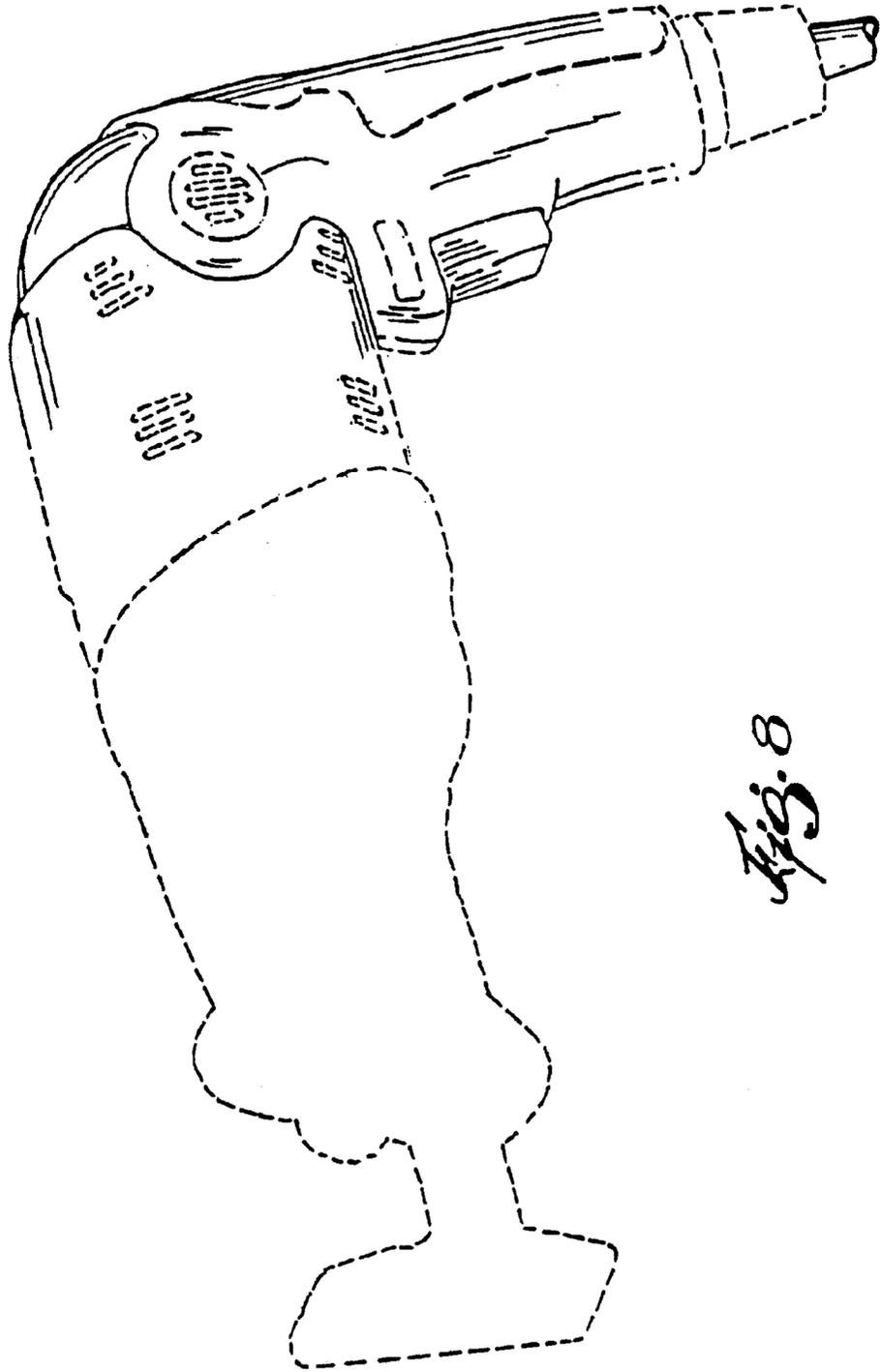
*Fig. 4*



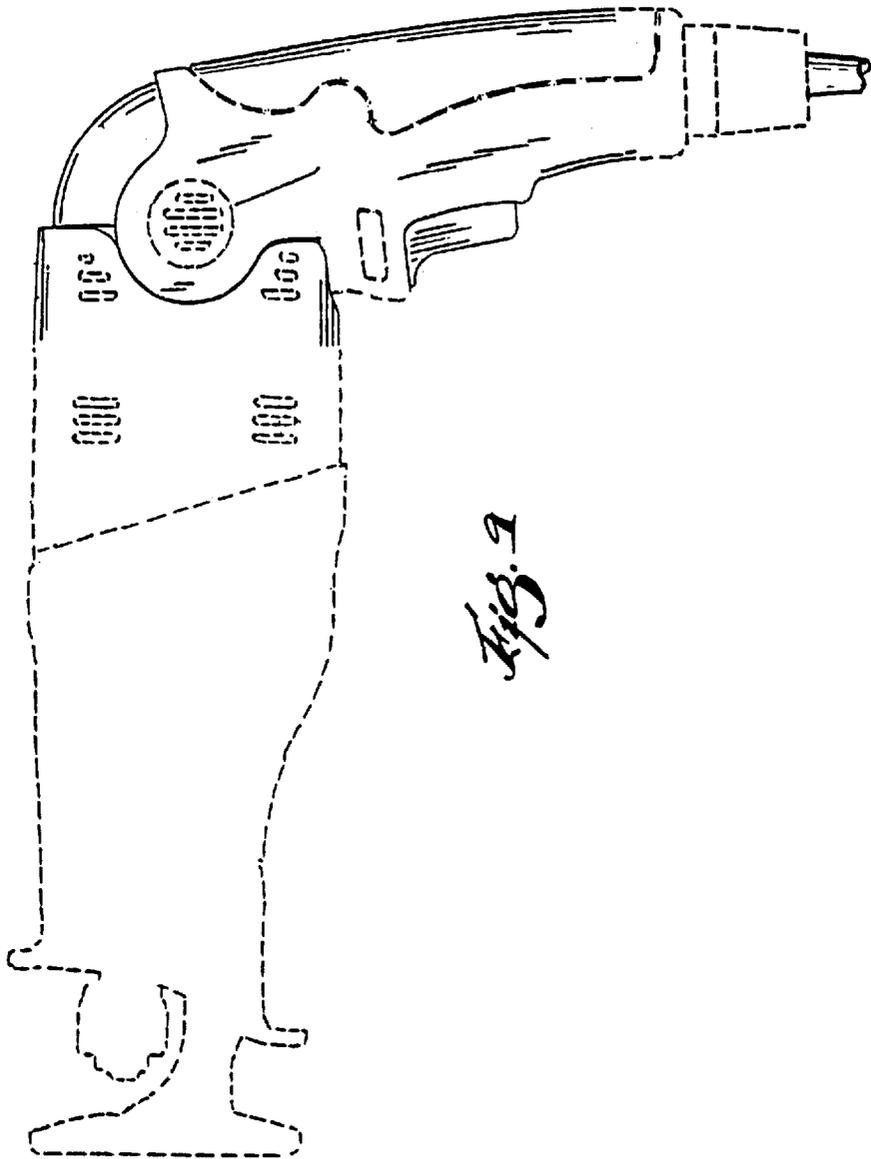
*Fig. 7*



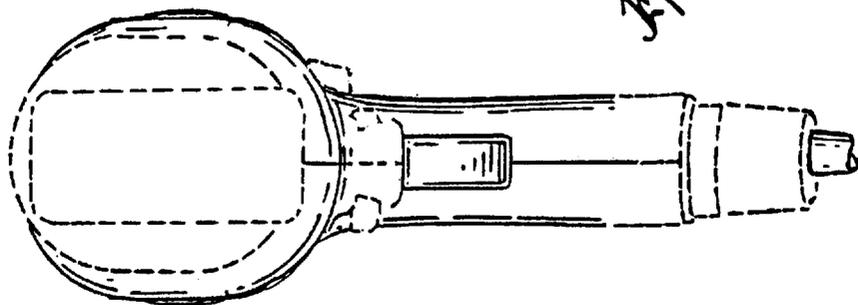
*Fig. 6*



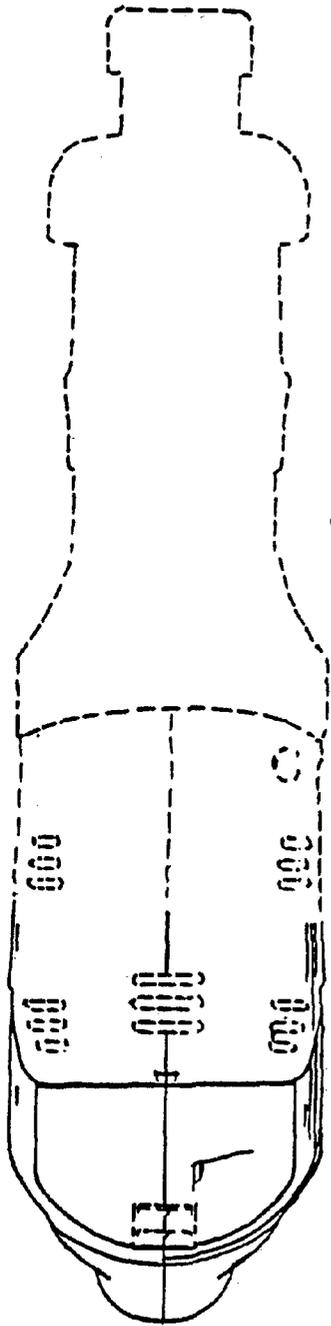
*Fig. 8*



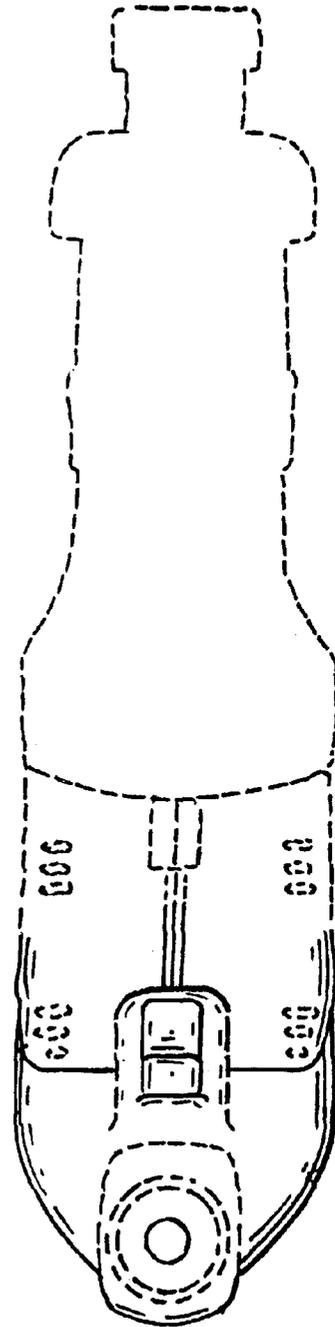
*Fig. 9*



*Fig. 13*



*Fig. 10*



*Fig. 11*

