



US00D456677S

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

(10) **Patent No.:** **US D456,677 S**

(45) **Date of Patent:** **\*\* May 7, 2002**

(54) **FOLDING SPANNER WRENCH**

(75) Inventors: **David J. Kolacz**, Plymouth; **Rodney A. Carringer**, LaPorte, both of IN (US)

(73) Assignee: **Task Force Tips, Inc.**, Valparaiso, IN (US)

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

(21) Appl. No.: **29/119,565**

(22) Filed: **Mar. 2, 2000**

(51) **LOC (7) Cl.** ..... **08-05**

(52) **U.S. Cl.** ..... **D8/27**

(58) **Field of Search** ..... D8/17-29; 81/176.1, 81/176.15, 176.2, 177.6

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

458,337 A \* 8/1891 Dodge ..... 81/176.1  
1,186,807 A \* 6/1916 Litomy ..... 81/177.6

(List continued on next page.)

**OTHER PUBLICATIONS**

Action Coupling & Equipment, Inc., Action—Municipal and Industrial Couplings and Adapters, 2pgs. (no dates known).

(List continued on next page.)

*Primary Examiner*—Raphael Barkai

(74) *Attorney, Agent, or Firm*—Lathrop & Clark LLP

(57) **CLAIM**

The ornamental design for a folding spanner wrench, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a folded folding spanner wrench of the present invention.

FIG. 2 is a front side view of the folded folding spanner wrench of FIG. 1.

FIG. 3 is a back side view of the folded folding spanner wrench of FIG. 1.

FIG. 4 is an end view of the folded folding spanner wrench as seen from the top of FIG. 2.

FIG. 5 is an end view of the folded folding spanner wrench as seen from the bottom of FIG. 3.

FIG. 6 is a side view of the folded folding spanner wrench as seen from the left side of FIG. 2.

FIG. 7 is a side view of the folded folding spanner wrench as seen from the left side of FIG. 3.

FIG. 8 is a perspective view of an unfolded folding spanner wrench of the present invention.

FIG. 9 is a front side view of the unfolded folding spanner wrench of FIG. 8.

FIG. 10 is a back side view of the unfolded folding spanner wrench of FIG. 8.

FIG. 11 is an end view of the unfolded folding spanner wrench as seen from the top of FIG. 9.

FIG. 12 is an end view of the unfolded folding spanner wrench as seen from the bottom of FIG. 10.

FIG. 13 is a side view of the unfolded folding spanner wrench as seen from the left side of FIG. 9.

FIG. 14 is a side view of the unfolded folding spanner wrench as seen from the left side of FIG. 10.

FIG. 15 is the perspective view of the folded folding spanner wrench of FIG. 1 and further indicating symbols of the colors black and yellow/gold.

FIG. 16 is a front side view of the folded folding spanner wrench of FIG. 15.

FIG. 17 is a back side view of the folded folding spanner wrench of FIG. 15.

FIG. 18 is an end view of the folded folding spanner wrench as seen from the top of FIG. 16.

FIG. 19 is an end view of the folded folding spanner wrench as seen from the bottom of FIG. 17.

FIG. 20 is a side view of the folded folding spanner wrench as seen from the left side of FIG. 16.

FIG. 21 is a side view of the folded folding spanner wrench as seen from the left side of FIG. 17.

FIG. 22 is a perspective view of an unfolded folding spanner wrench of the present invention and further indicating symbols of the colors black and yellow/gold.

FIG. 23 is a front side view of the unfolded folding spanner wrench of FIG. 22.

FIG. 24 is a back side view of the unfolded folding spanner wrench of FIG. 22.

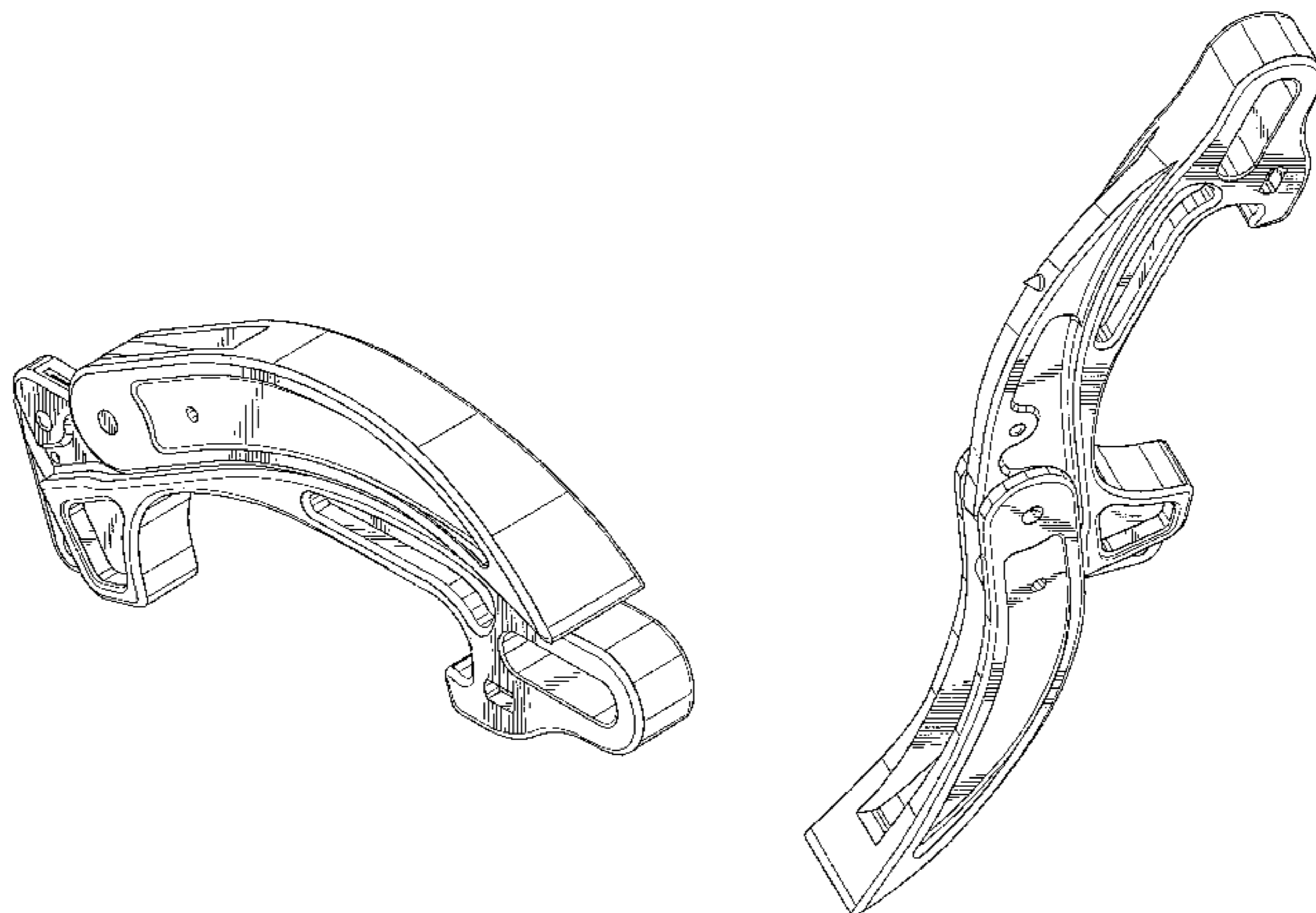
FIG. 25 is an end view of the unfolded folding spanner wrench as seen from the top of FIG. 23.

FIG. 26 is an end view of the unfolded folding spanner wrench as seen from the bottom of FIG. 24.

FIG. 27 is a side view of the unfolded folding spanner wrench as seen from the left side of FIG. 23; and,

FIG. 28 is a side view of the unfolded folding spanner wrench as seen from the left side of FIG. 24.

**1 Claim, 12 Drawing Sheets**



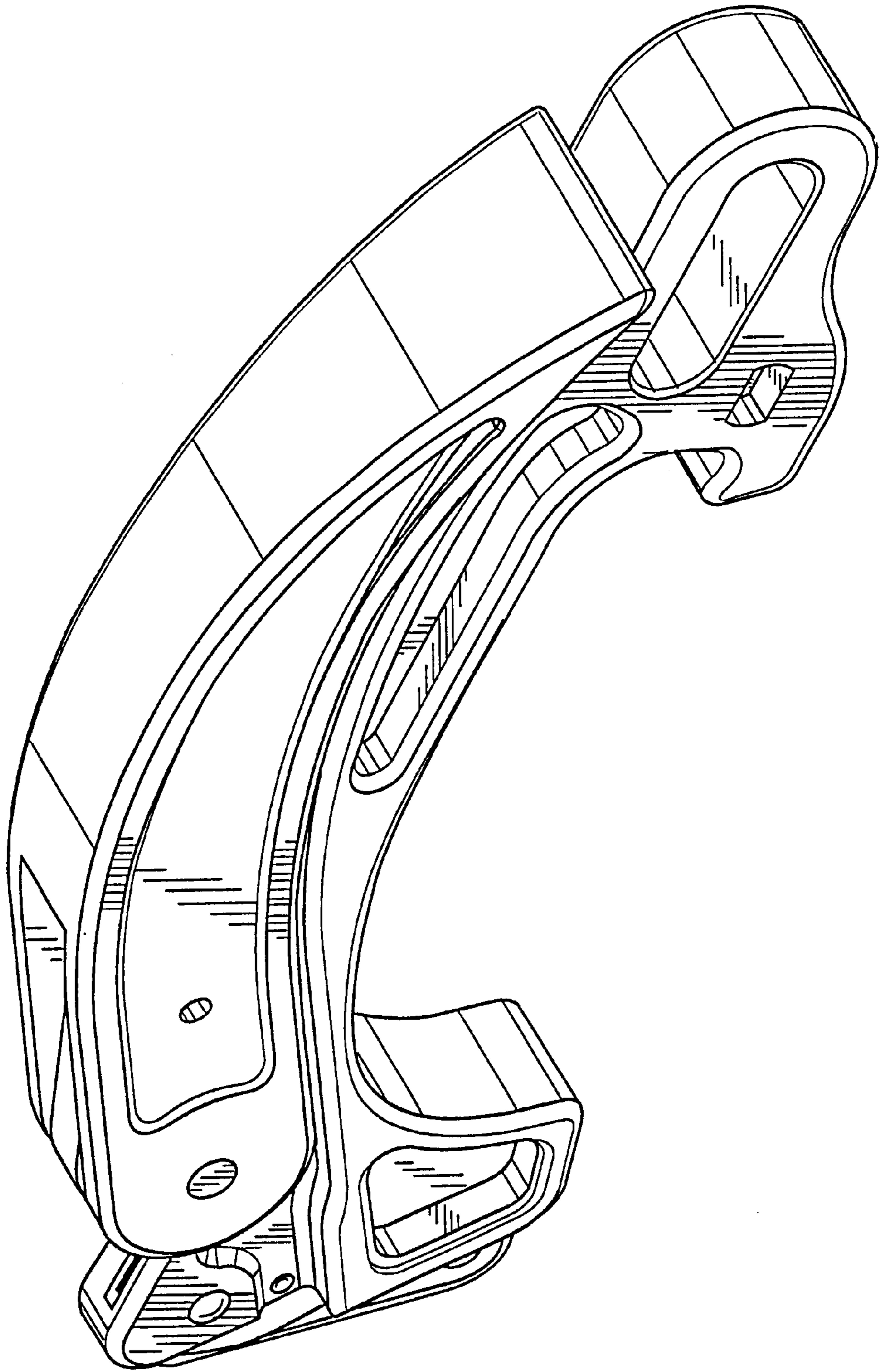
U.S. PATENT DOCUMENTS

D135,158 S \* 3/1943 Miller ..... D8/27  
D138,515 S \* 8/1944 Hardy ..... D8/27  
D258,636 S \* 3/1981 Boyko ..... 81/176.1  
4,918,820 A 4/1990 Korb et al.  
D422,466 S \* 4/2000 Kovach ..... D8/17

OTHER PUBLICATIONS

Agree's Bicycles, The Alien and McGuyver Tool, 1 pg., 1999.  
Akron Brass®, Catalog 108, 3 pgs., 1998.  
Akron Brass®, Catalog 106, 3 pgs., 1987.  
AWG, Feuerwehrrarmaturen, Für Brandschutz, Mobile Wasserversorgung und Industrie, Catalog No. 213, 6 pgs. (no dates known).  
AWG, Fire Fighting Fittings for Fire Protection, Mobile Water Supply and Industry, 4 pgs. (no dates known).  
AWG Storz System, Quick Connection Couplings, Catalog No. 114e, 3 pgs. (no date known).  
Bike World, Tools, Lubricants and Shop Essentials, 5 pgs., 1999.  
Bryan's Fire & Rescue Specialists, Inc., Photocopy of wrench, 2 pgs. (no date known).  
W.S. Darley & Co., Fire Fighting Equipment, Catalog #223, 3 pgs. (no date known).

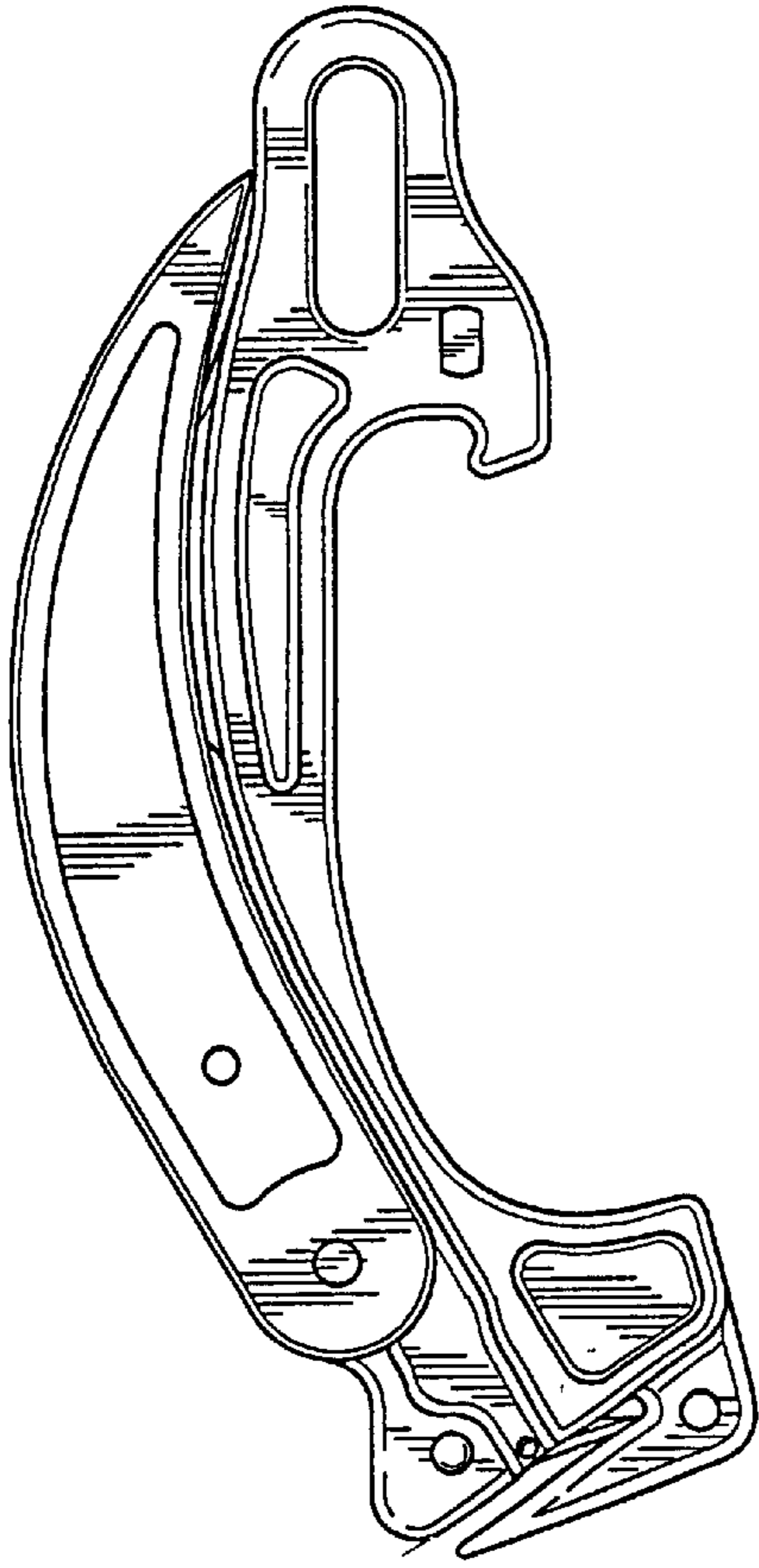
W.S. Darley & Co., Fire Fighting Equipment Catalog, Catalog #224, 5 pgs. (no date known).  
Elkhart, Fire Protection Equipment of All Types of Buildings, Catalog 78, 4 pgs. (no date known).  
Elkhart, Fire Fighting Equipment, Catalog B, 3 pgs. (no date known).  
Elkhart, Fire Fighting Equipment, Catalog T, 3 pgs. (no date known).  
Heiman Fire Equipment, Wrenches, 2 pgs., 1999.  
Iowa-American Firefighting Equipment Co., A Tradition of Innovation, Catalog 6, 4 pgs. (no date known).  
Lenox, Tri-Fold Saw, 1 pg., 1999.  
Liberty Industrial, Newco: Spanner Wrench, 1 pg., 1999.  
Micro-Tools, Spanner Wrench, Economy Set, 1 pg., 1999.  
Millennium Suppliers, Drum Wrench, 1 pg., 1999.  
PC Voyage, Universal Utility Tool, 3 pgs., 1999.  
Pok S.A., Raccords Couplings, 3 pgs. (no date known).  
Pollard, Hydrant Wrenches, 2 pgs., 1999.  
R. Pons, Catalogue 1994, 6 pgs.  
R. Pons, Catalogue 1996, 5 pgs.  
Tri-Resq-Saw, Photocopy of wrench, 1pg. (no date known).  
South Park Corporation, Hydrant/Spanner Wrench/Holder, 2 pgs., 1999.  
Yu HWA Co., Ltd., Hex Key Wrenches, 2 pgs., 1999.  
\* cited by examiner



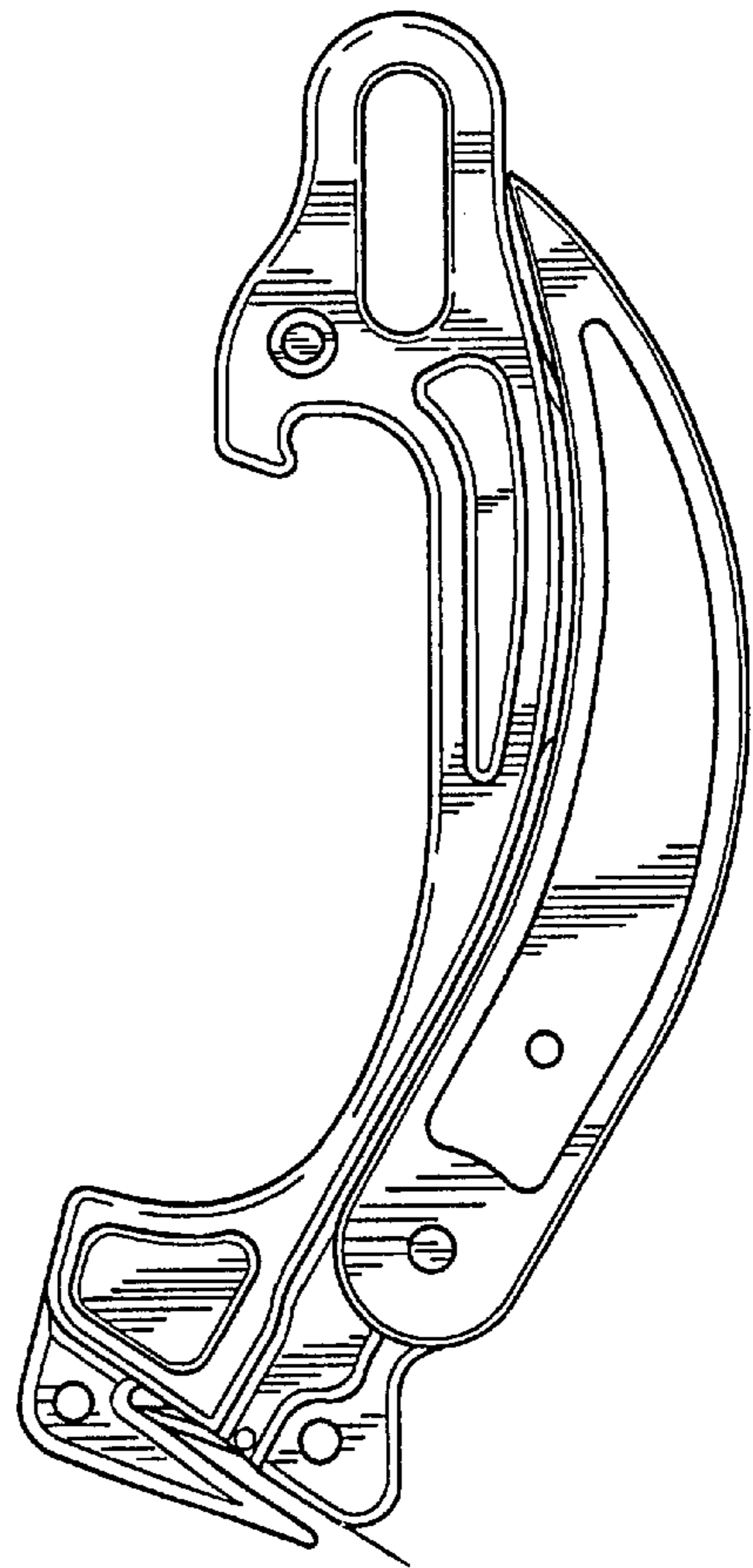
*Fig. 1*



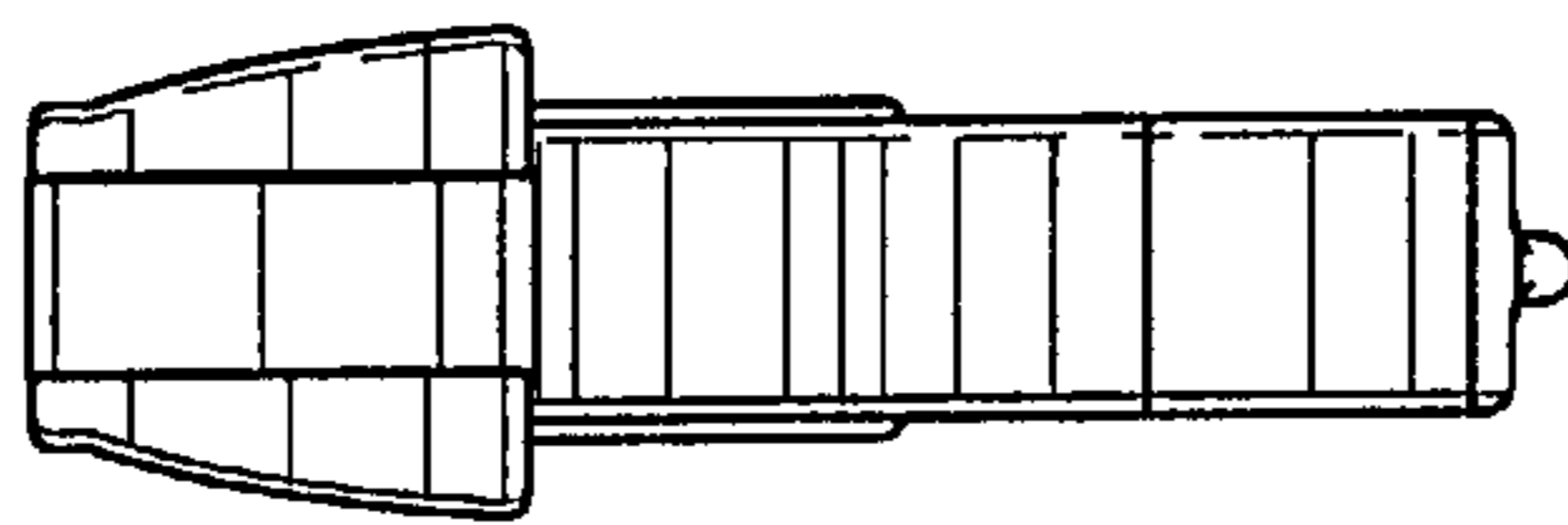
*Fig. 2*



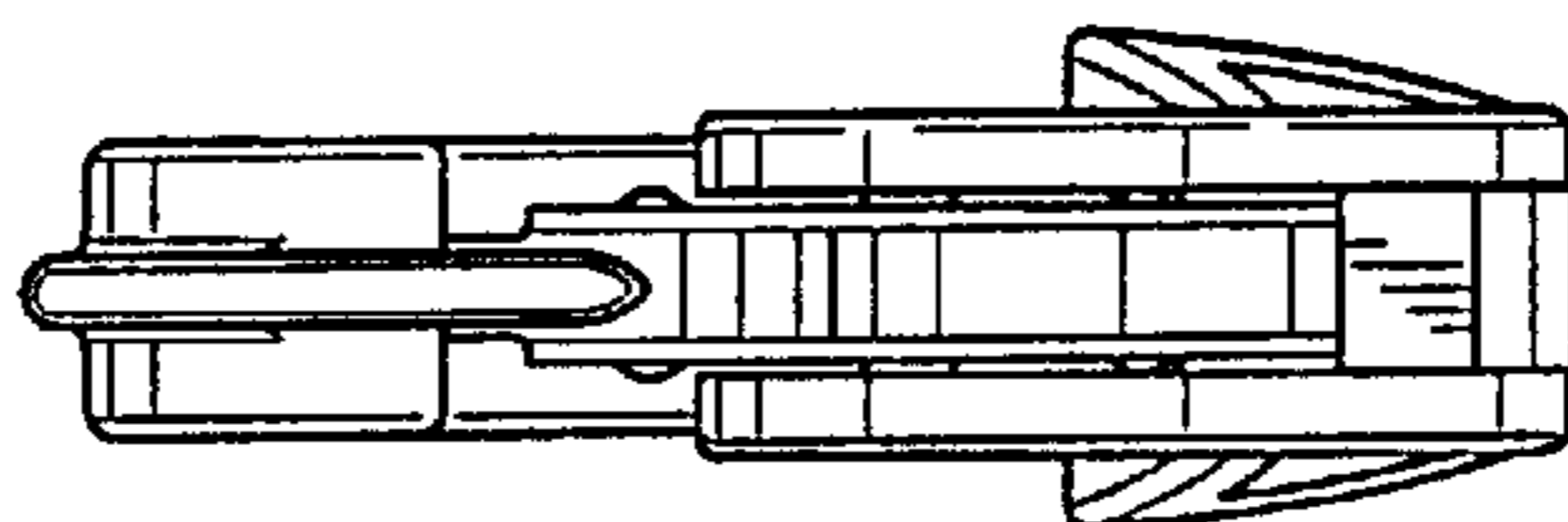
*Fig. 3*



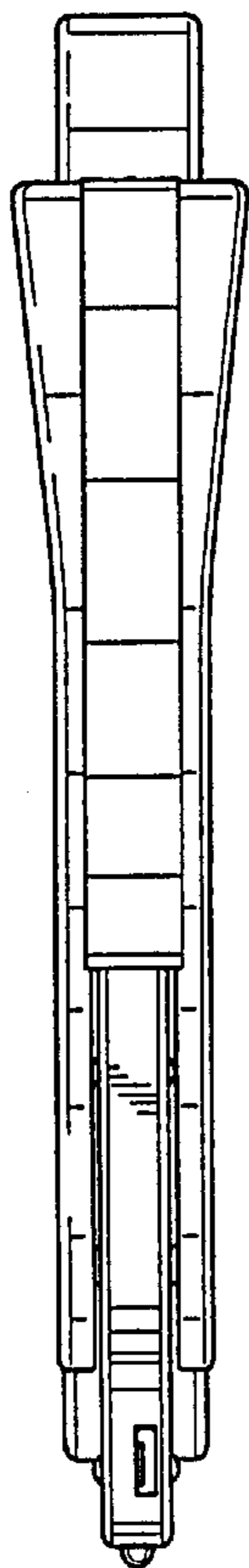
*Fig. 4*



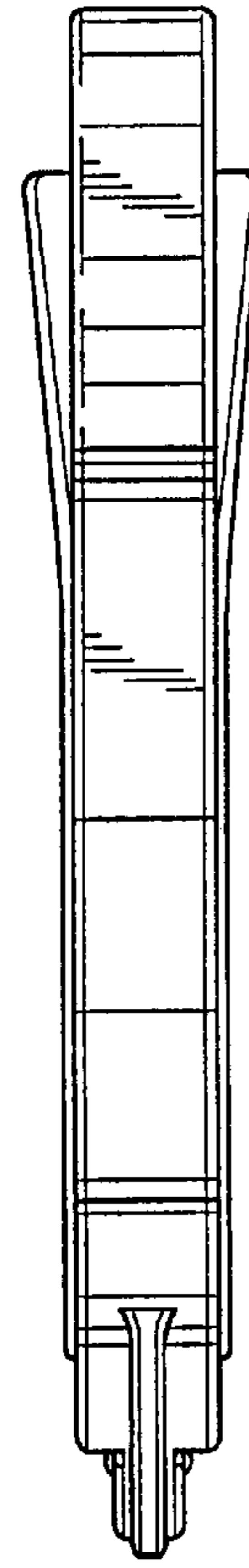
*Fig. 5*



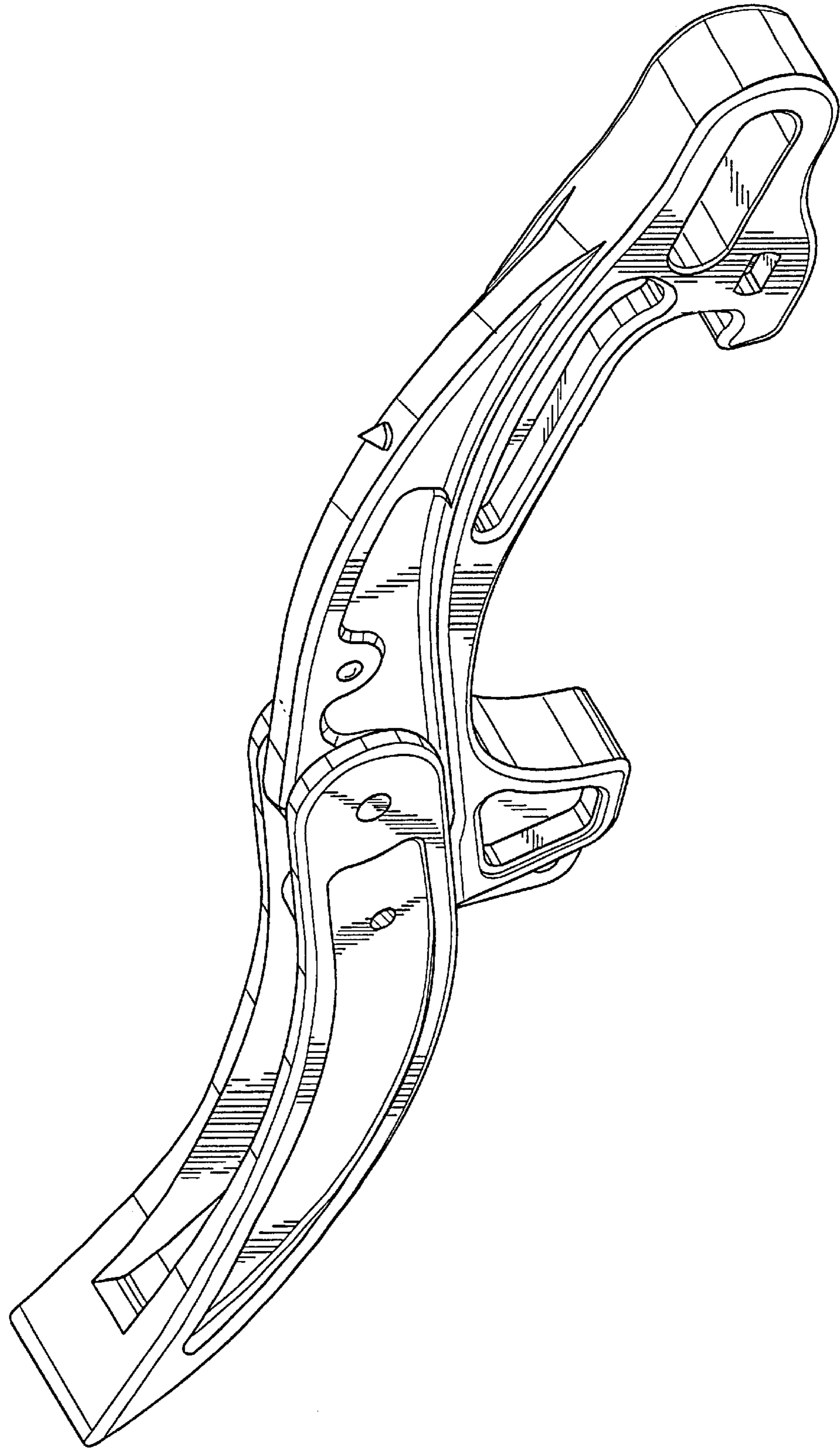
*Fig. 6*



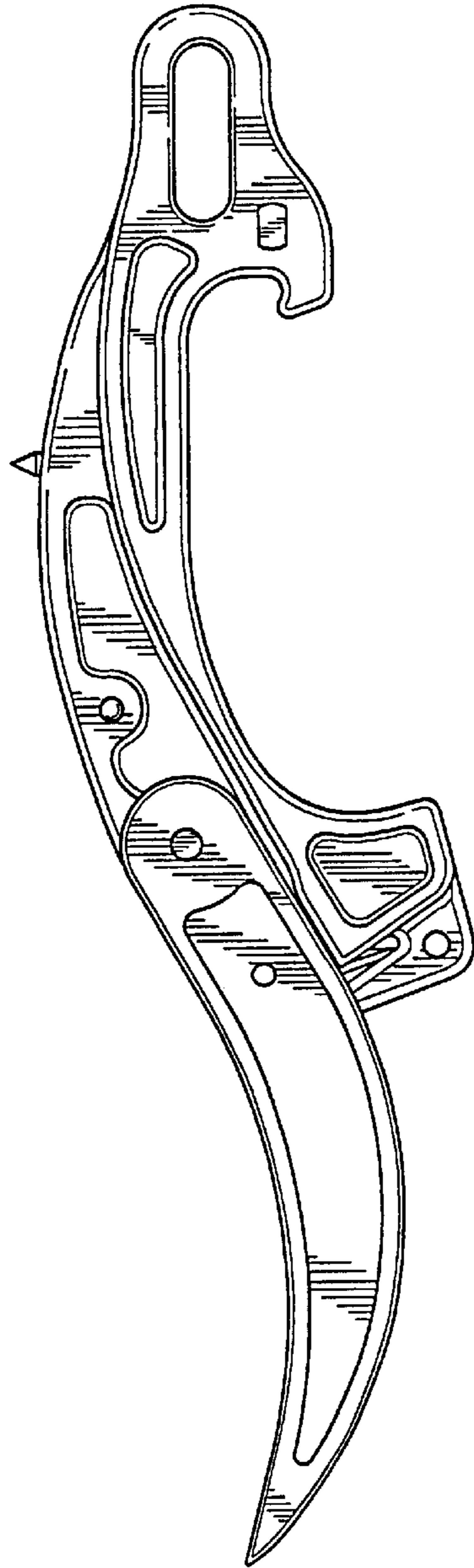
*Fig. 7*



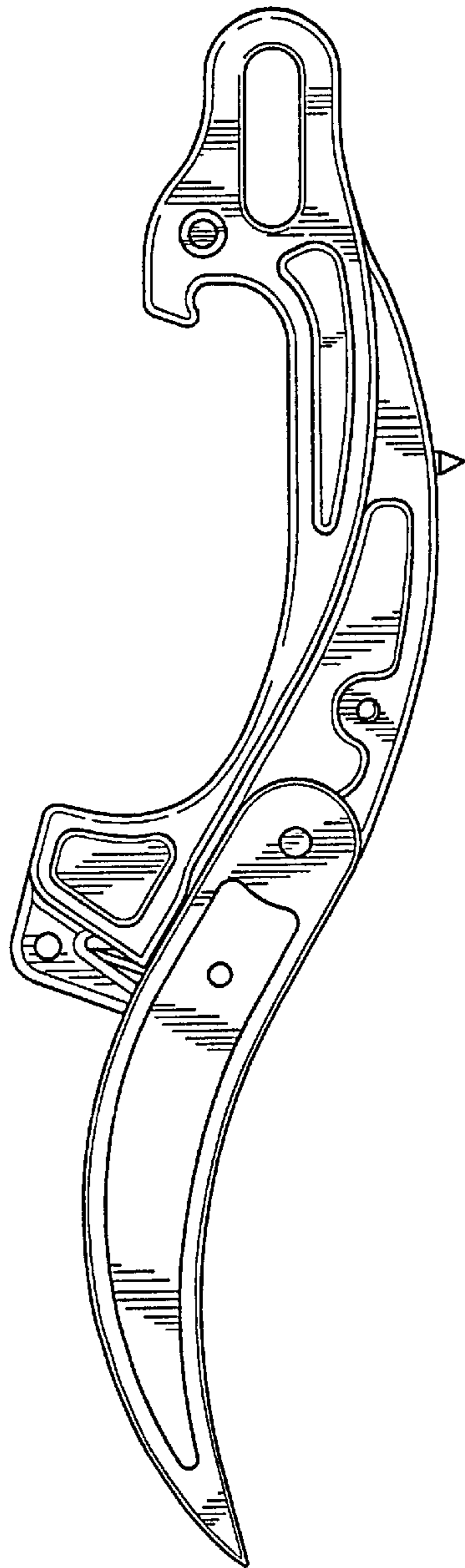
*Fig. 8*



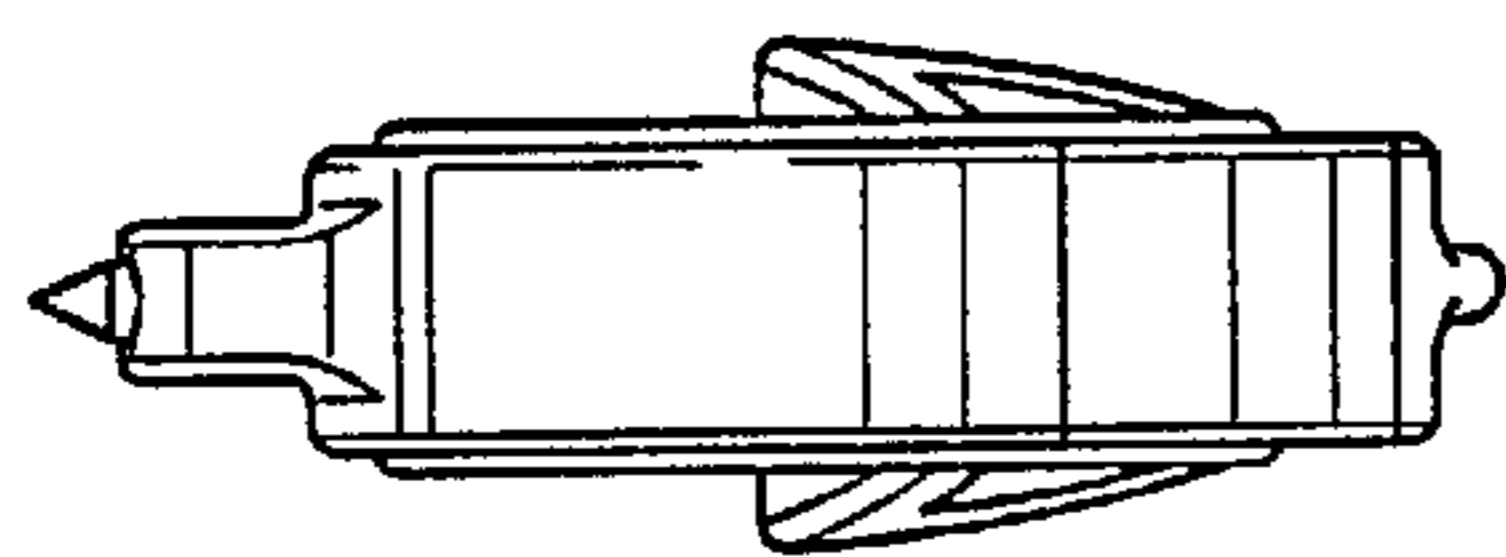
*Fig. 9*



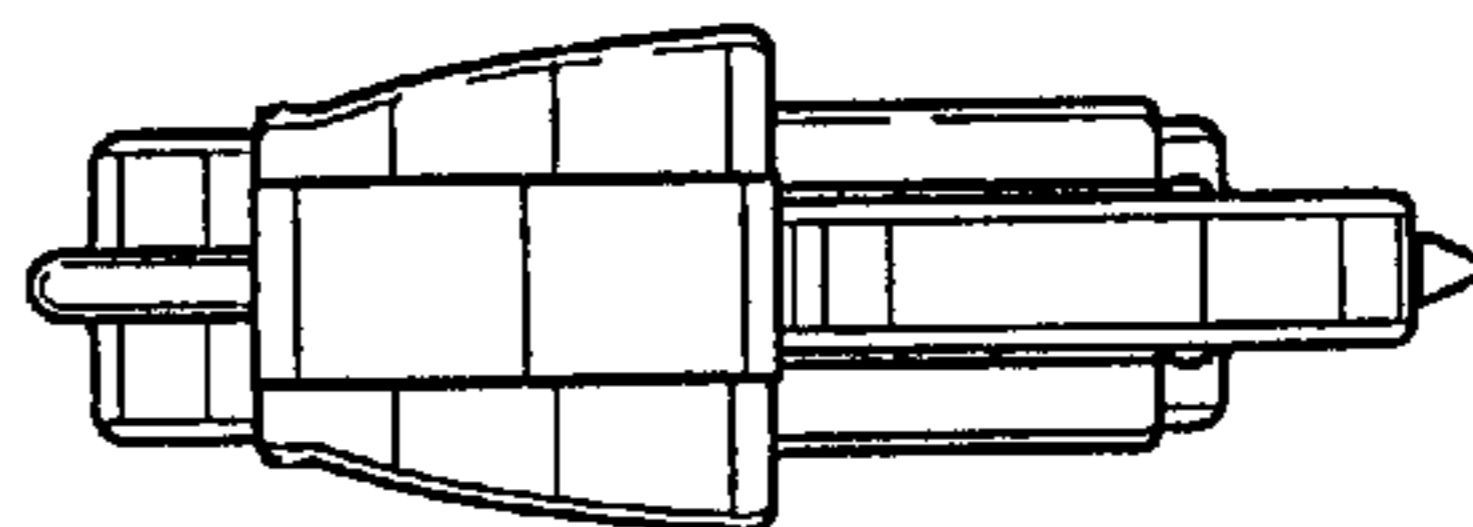
*Fig. 10*



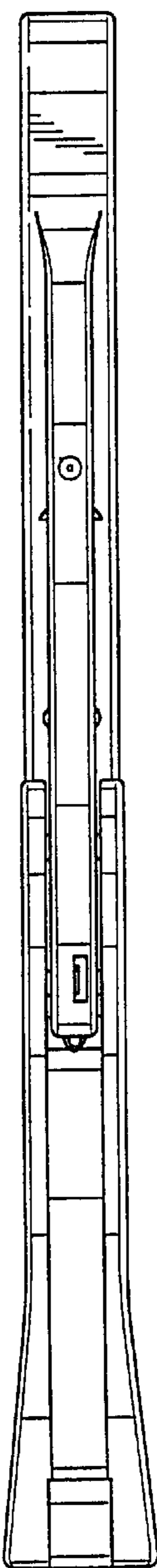
*Fig. 11*



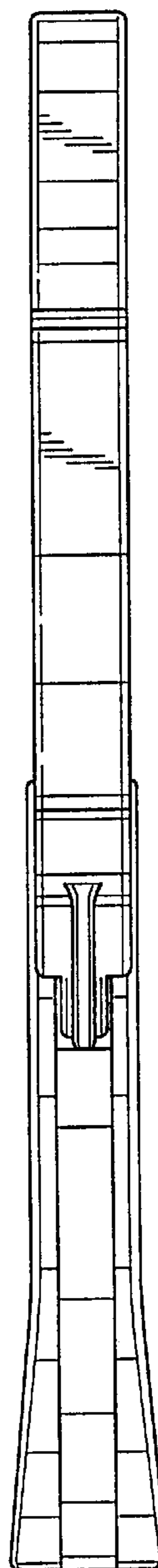
*Fig. 12*



*Fig. 13*



*Fig. 14*





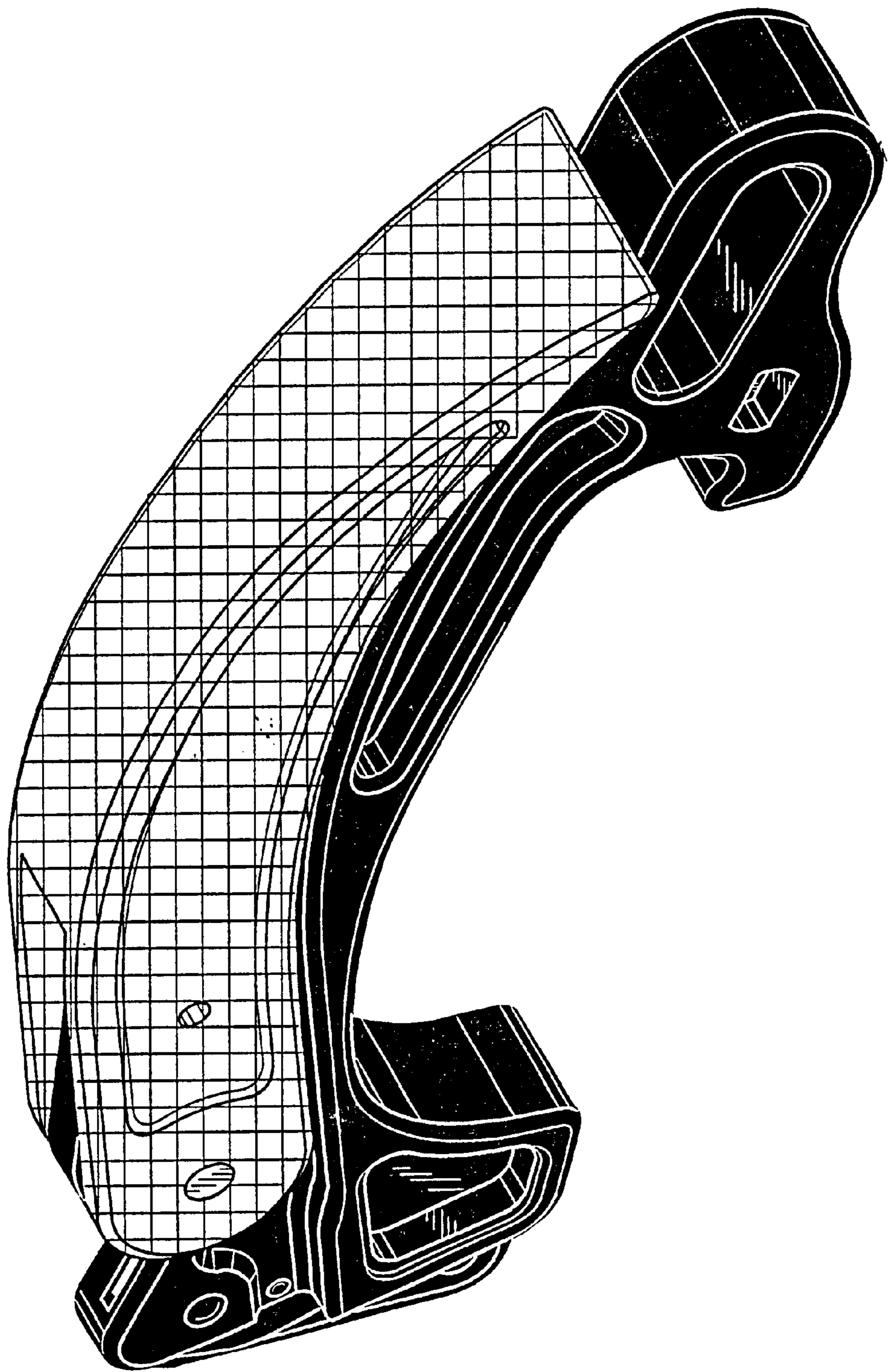
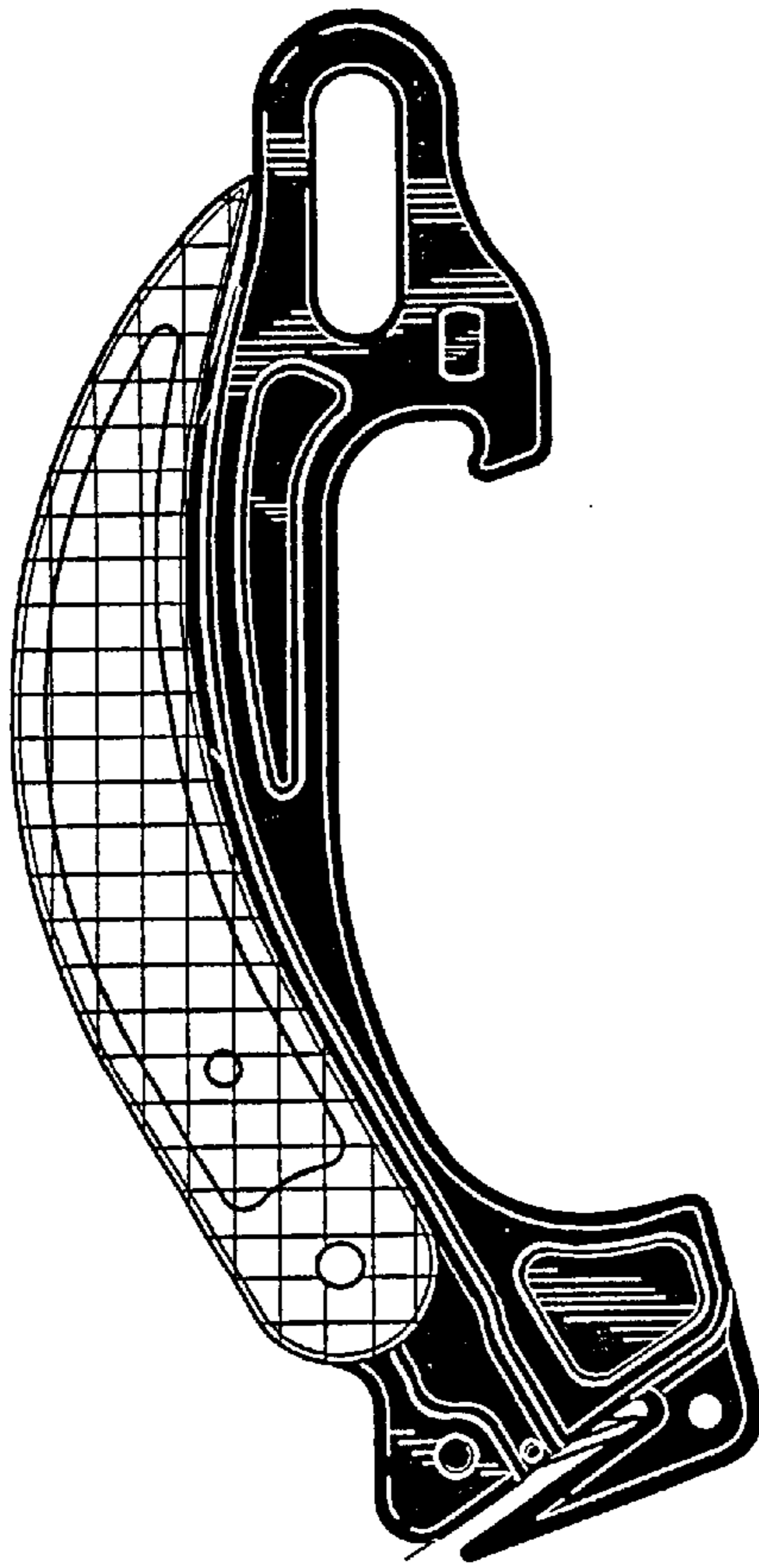
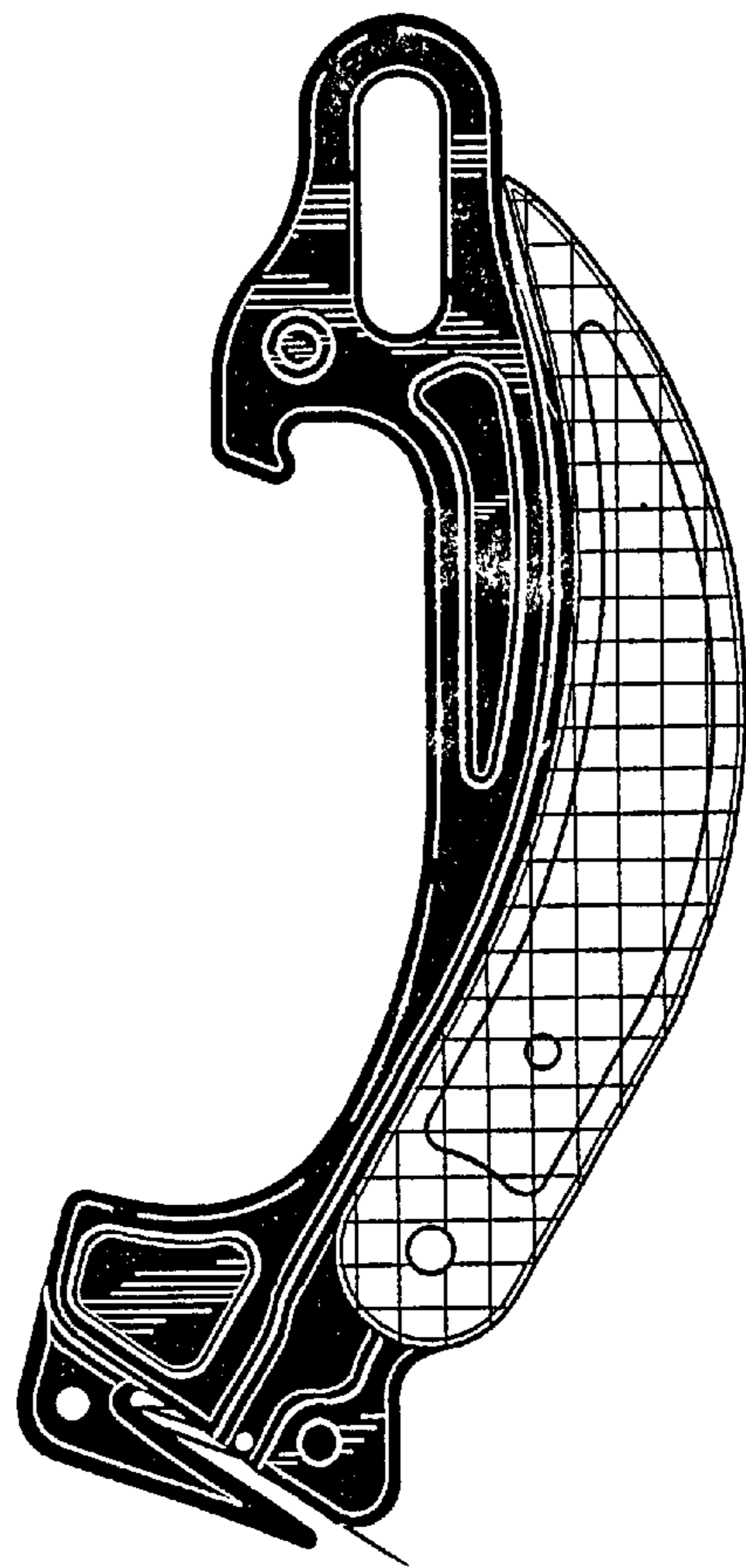


Fig. 15

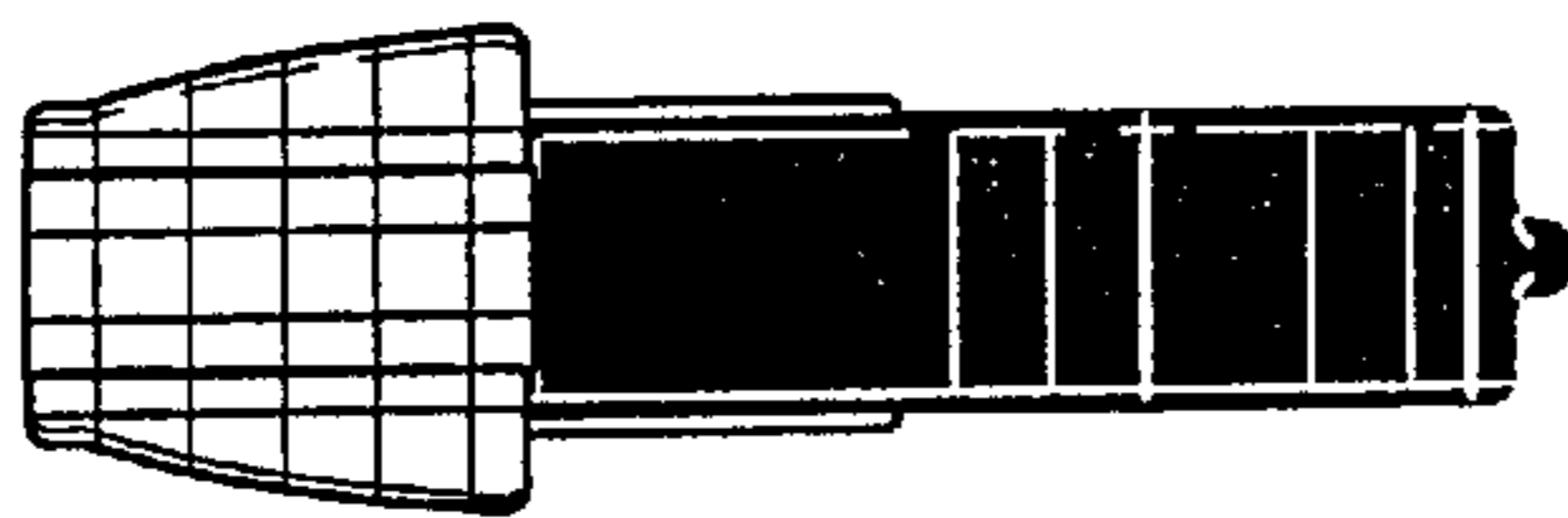
*Fig. 16*



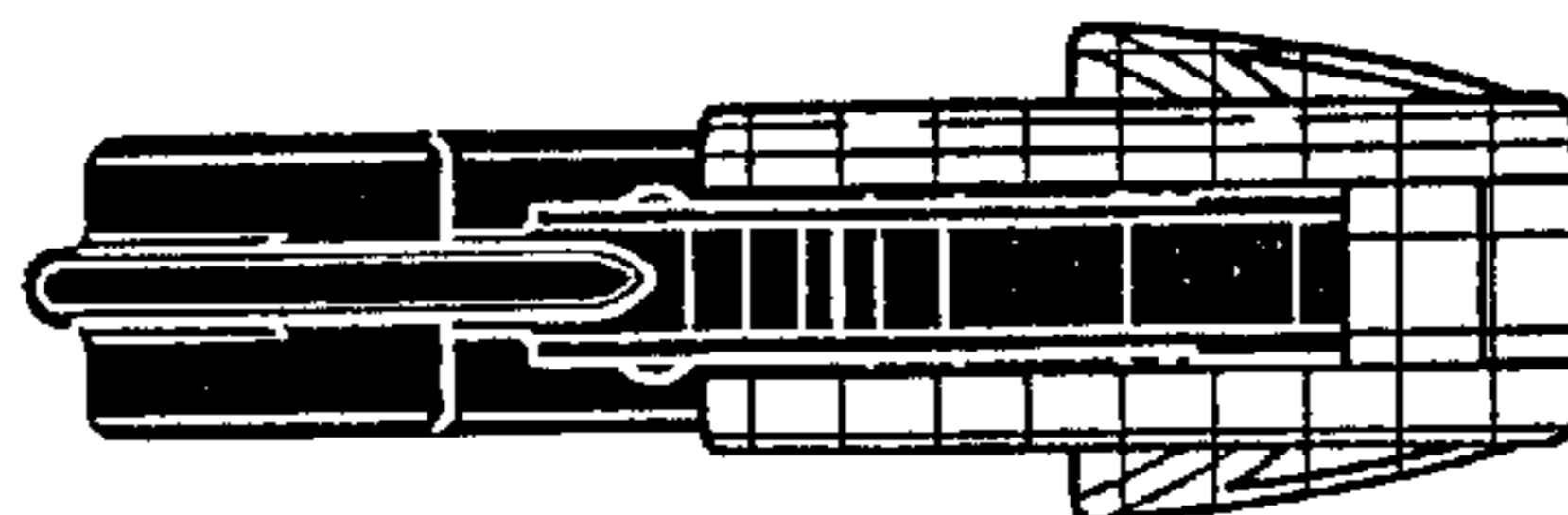
*Fig. 17*



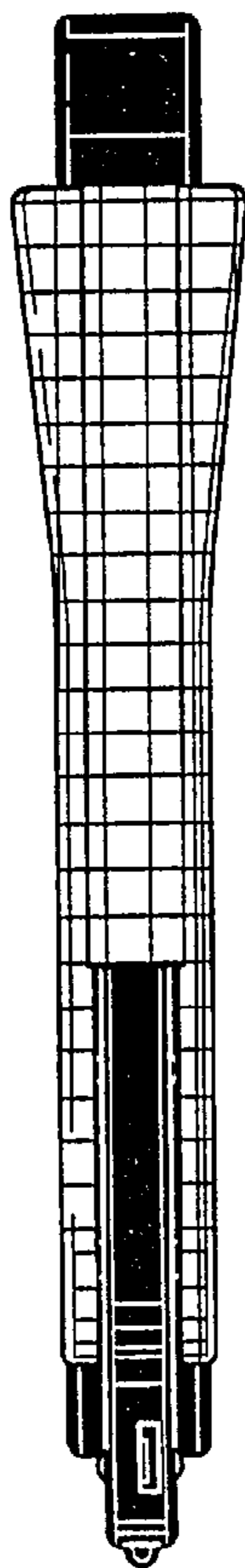
*Fig. 18*



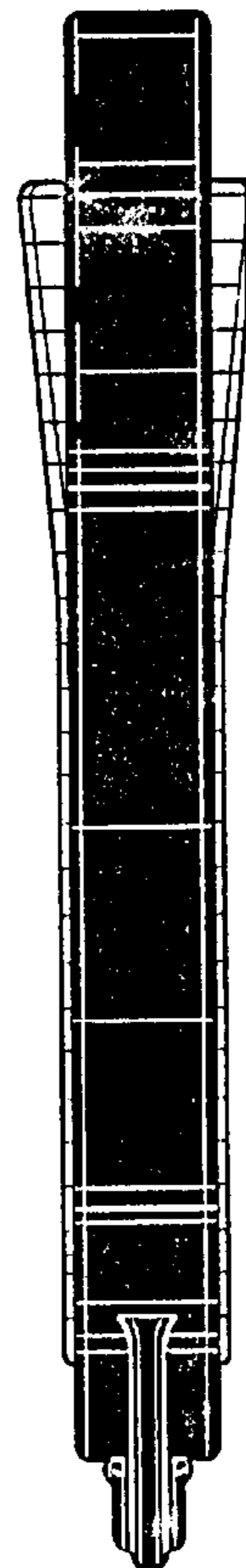
*Fig. 19*



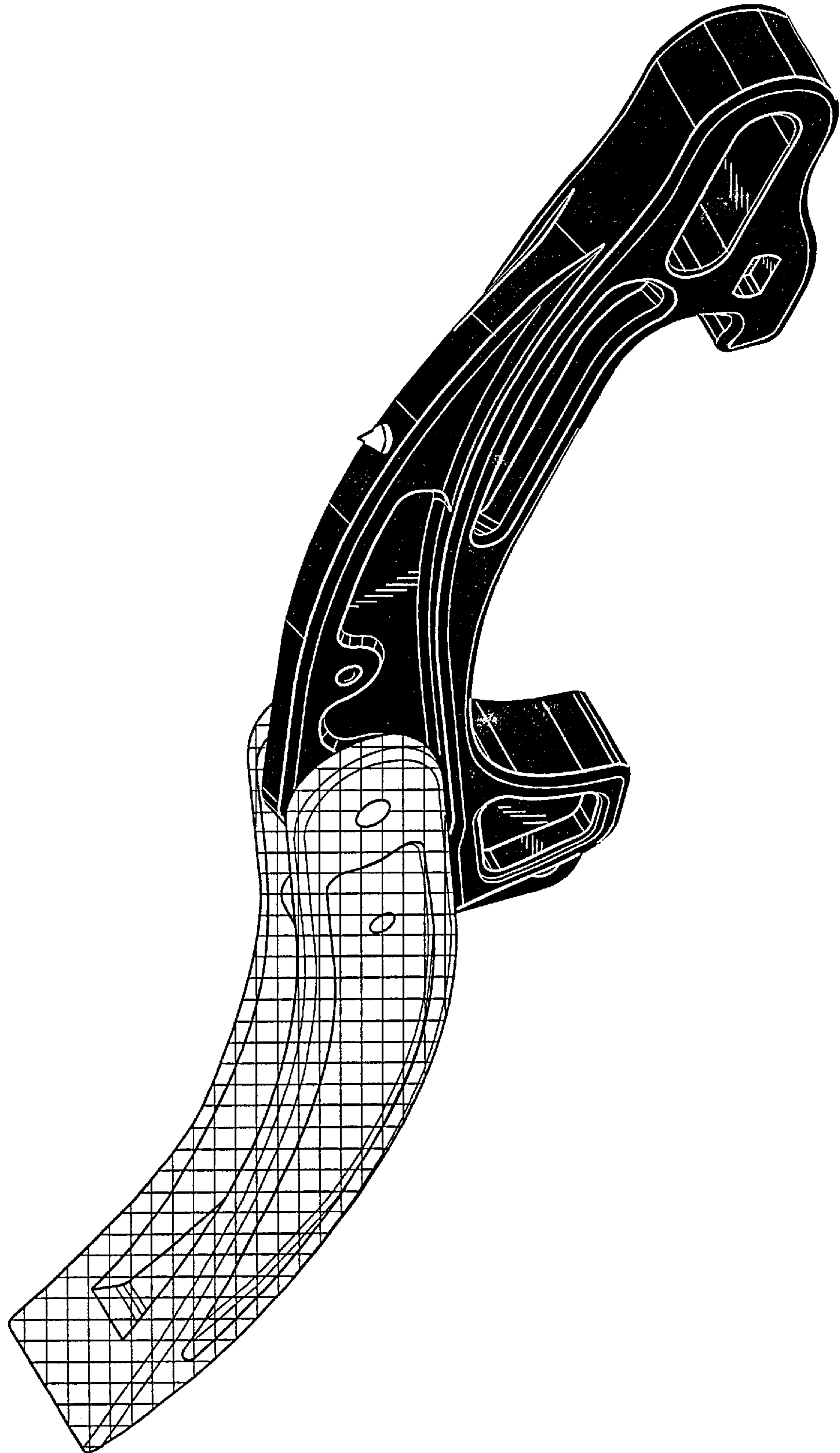
*Fig. 20*



*Fig. 21*

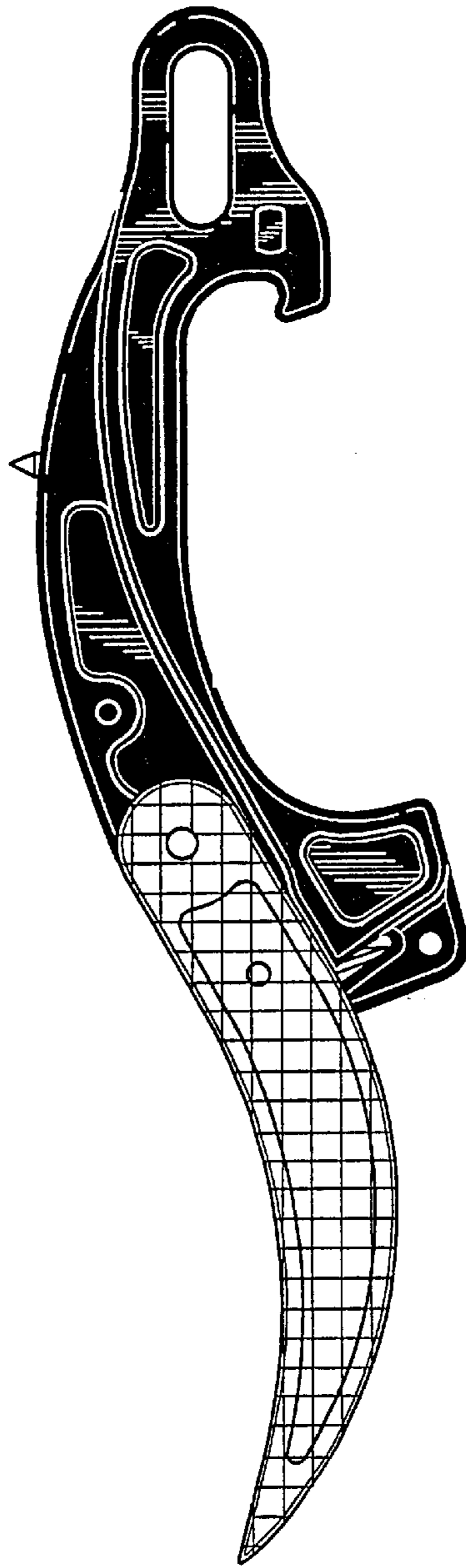


*Fig. 22*

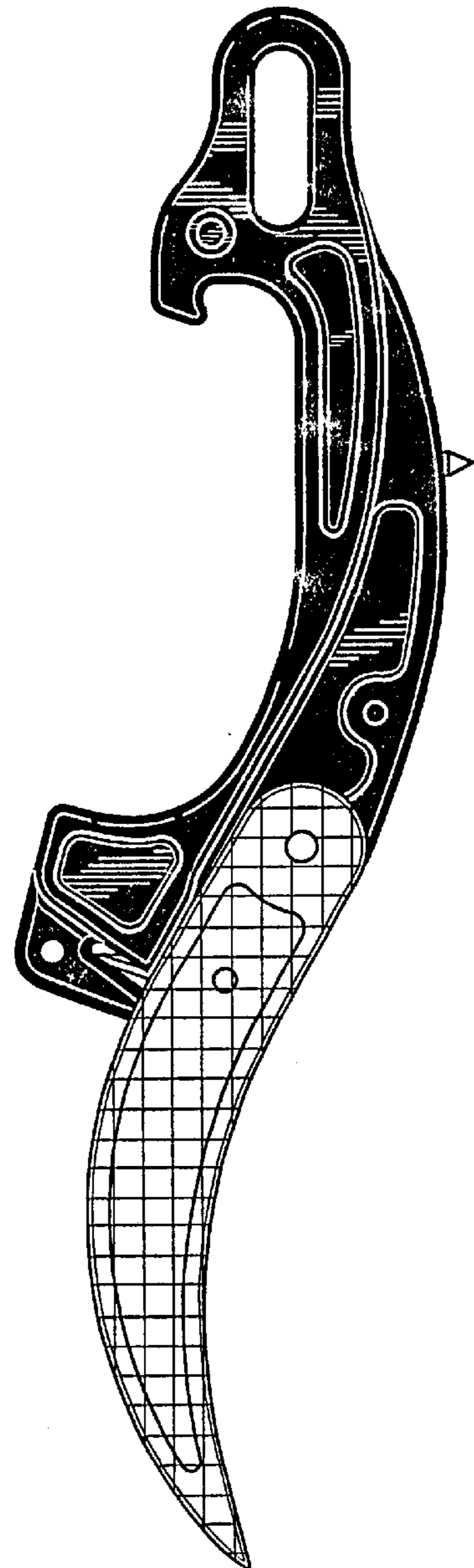




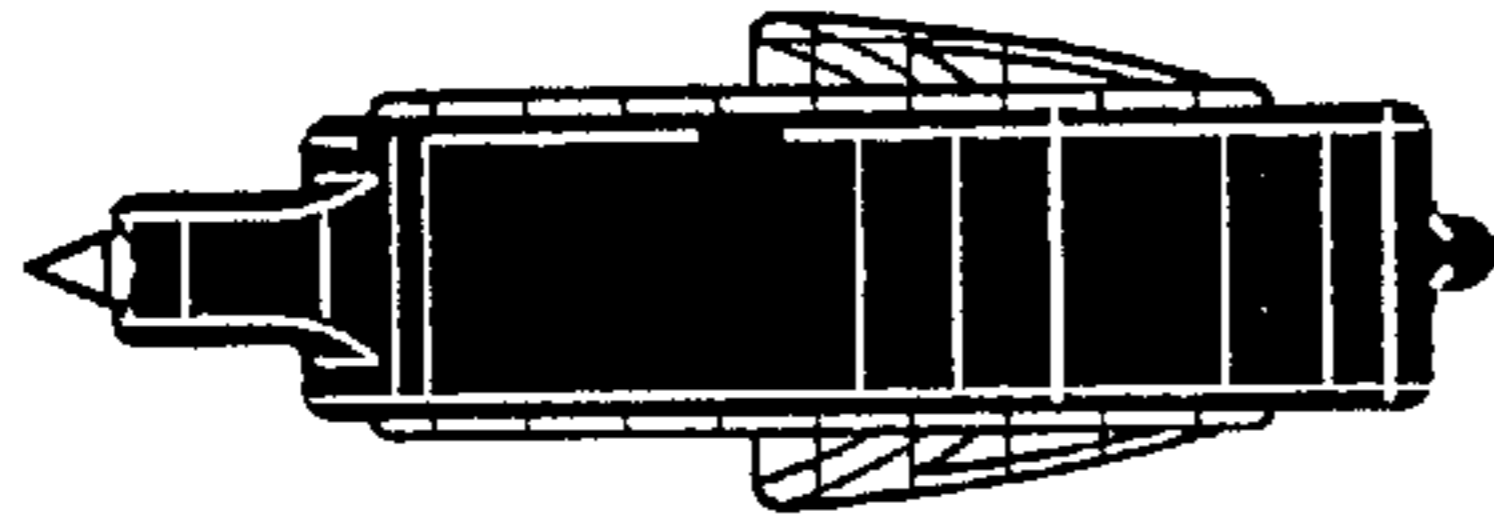
*Fig. 23*



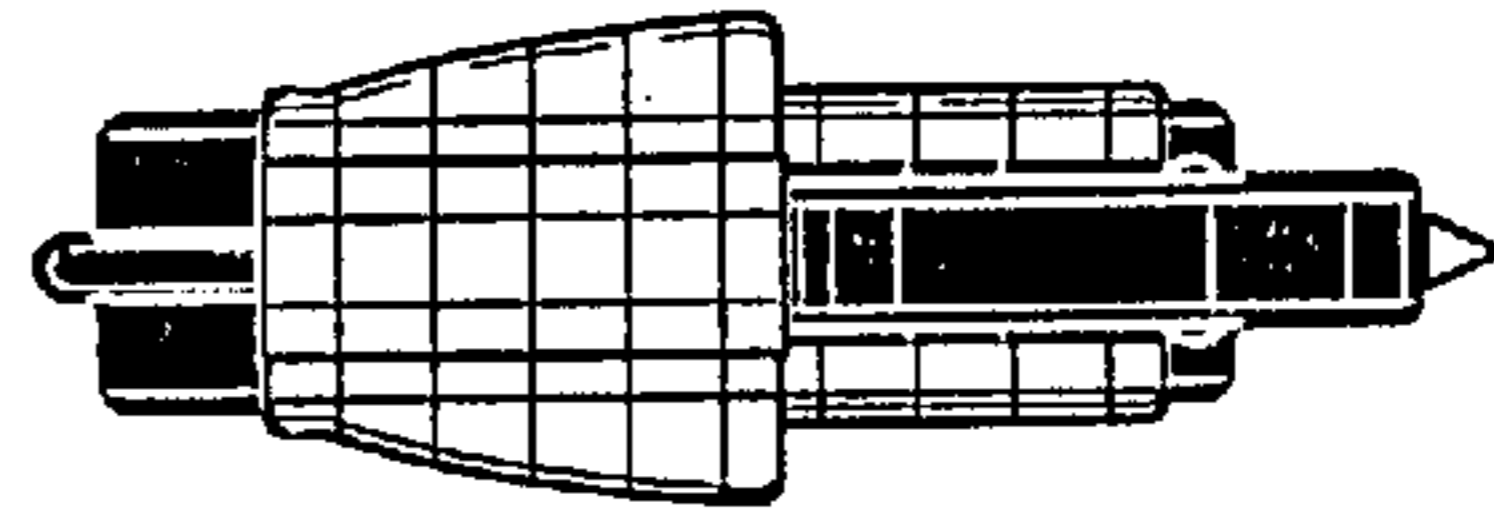
*Fig. 24*



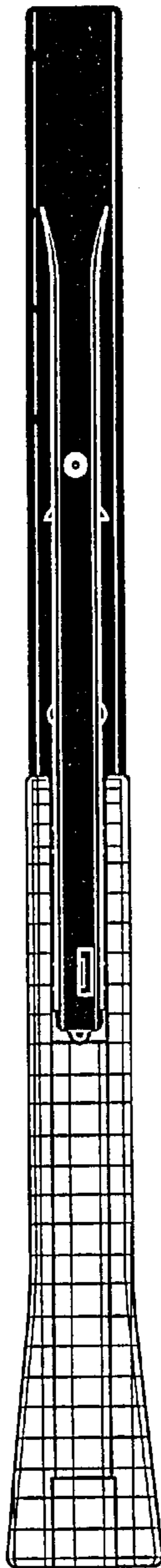
*Fig. 25*



*Fig. 26*



*Fig. 27*



*Fig. 28*

