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(12) **United States Design Patent**  
**Spradling**

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(54) **SWIVEL-TYPE GEAR RATCHET**  
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(US)  
(73) Assignee: **The United States of America as**  
**represented by the Secretary of the Air**  
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(\*\*) Term: **14 Years**

D284,637 S \* 7/1986 Erickson et al. .... D8/21  
D313,153 S \* 12/1990 Lockman ..... D8/21  
5,940,933 A \* 8/1999 Chang ..... 16/439  
6,032,555 A \* 3/2000 Whitley ..... 81/63.1  
6,286,396 B1 \* 9/2001 Johnson ..... 81/60  
D528,883 S \* 9/2006 Hu ..... D8/25  
D530,577 S \* 10/2006 Hu ..... D8/25  
7,320,267 B1 1/2008 Chen  
2002/0170134 A1 \* 11/2002 Martin ..... 15/236.01  
2006/0048609 A1 3/2006 Shih

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\* cited by examiner

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(51) **LOC (9) Cl.** ..... **08-05**  
(52) **U.S. Cl.** ..... **D8/25**  
(58) **Field of Classification Search** ..... D8/17,  
D8/21–29, 52, 55, 81–87, 102–107, 98, 99,  
D8/93, 94; 81/119, 121.1, 86, 124.2, 125,  
81/125.1, 176.1, 176.2, 177.1, 177.2, 177.3,  
81/177.85, 124.3, 124.7, 176.3, 179, 160,  
81/3.57, 3.55, 58.4, 186, 58.3, 300, 58.1,  
81/60–63.2, 165–170, 110.1, 124.6, 176.15,  
81/121.7, 436, 437, 418, 166, 177.8, 177.9,  
81/185.1, 3.4, 177.4, 492, 57, 58, 13, 177.7,  
81/490, 415–423, 427.5; 140/119; 16/422,  
16/186, 429, 430; D24/133, 144, 147  
See application file for complete search history.

(57) **CLAIM**

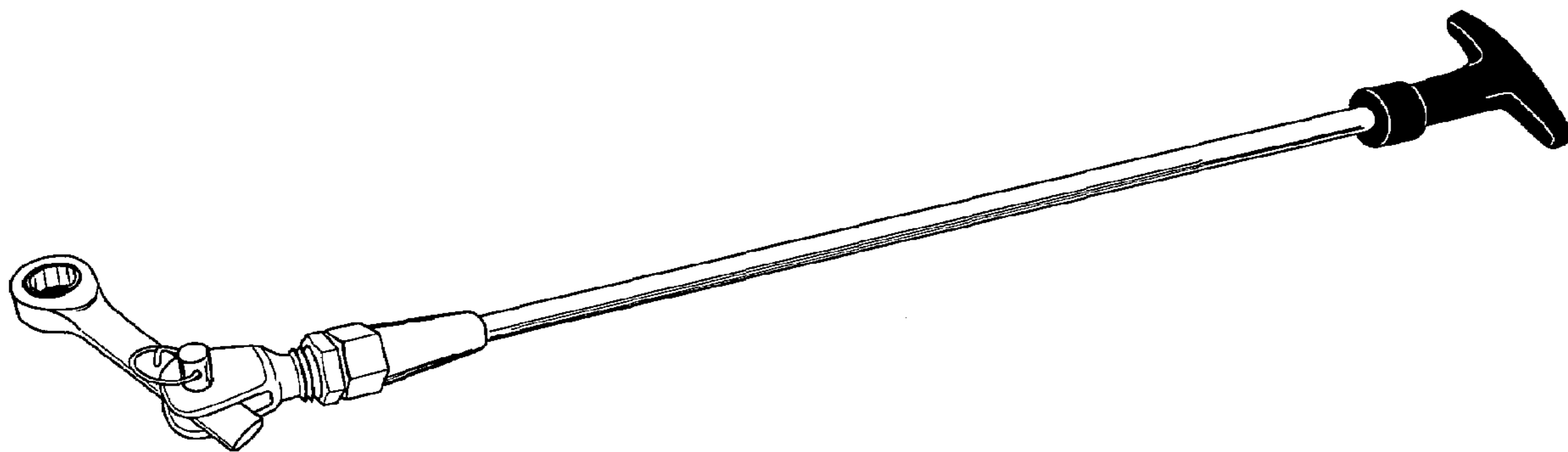
The ornamental design for a swivel-type gear ratchet, as  
shown and described.

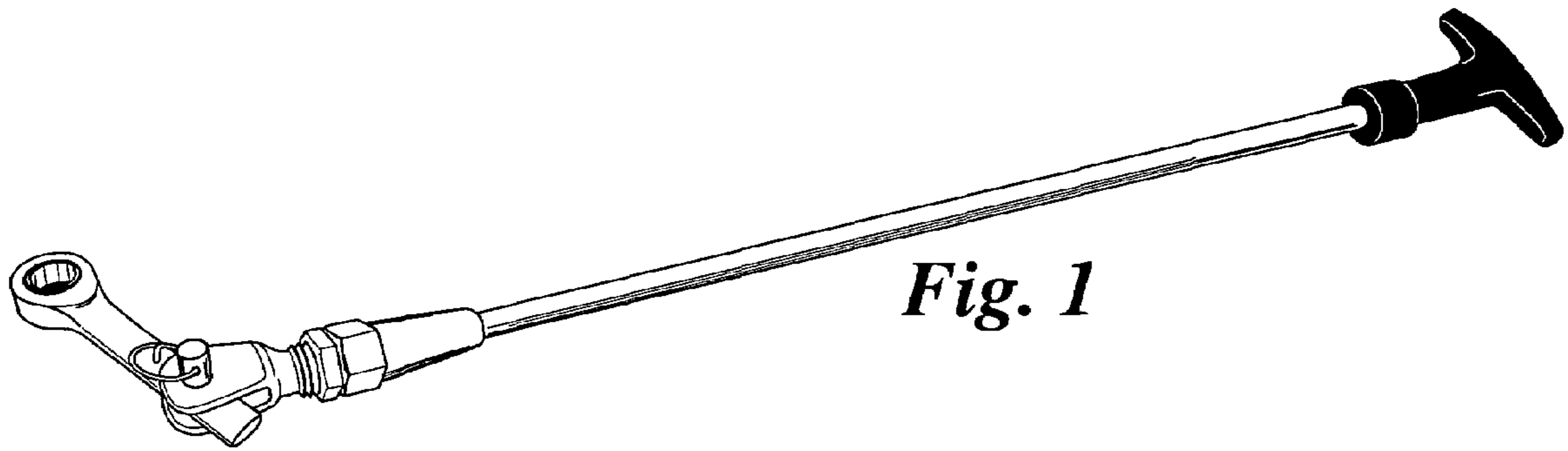
**DESCRIPTION**

FIG. 1 is a perspective view of the swivel-type gear ratchet of  
the subject invention;  
FIG. 2 is a bottom view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a side view thereof; and,  
FIG. 5 is a front view in an alternate position thereof.

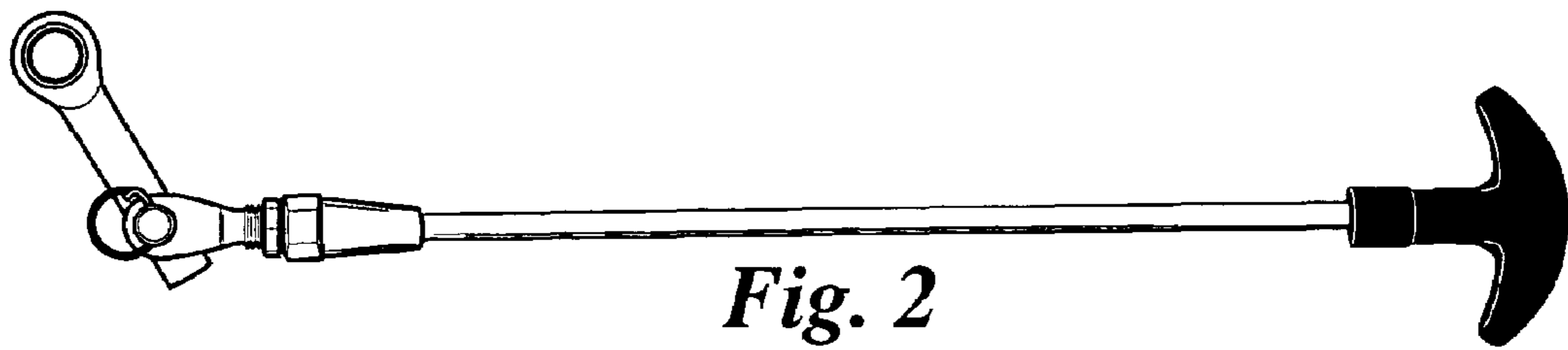
(56) **References Cited**  
U.S. PATENT DOCUMENTS  
1,840,685 A \* 1/1932 Witherup ..... 81/177.8

**1 Claim, 1 Drawing Sheet**

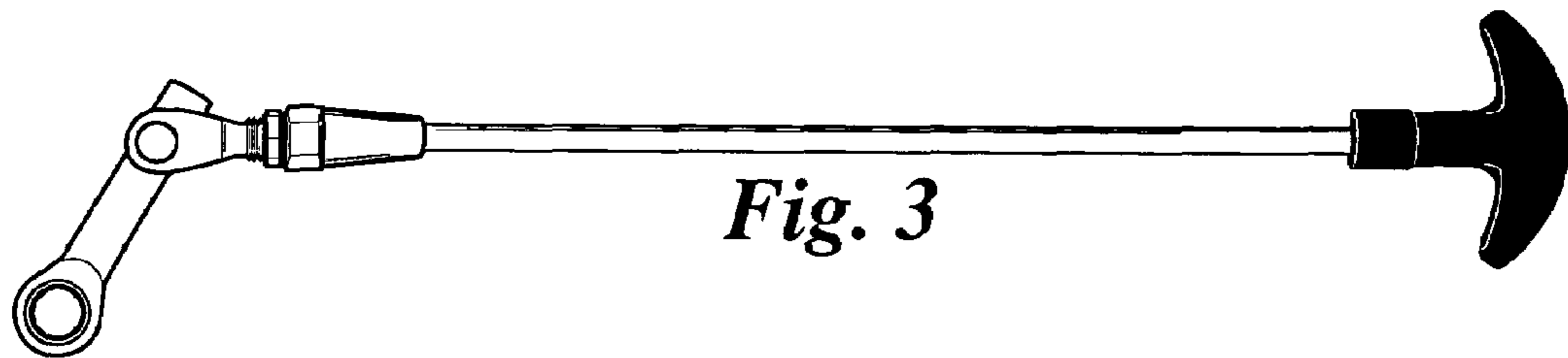




*Fig. 1*



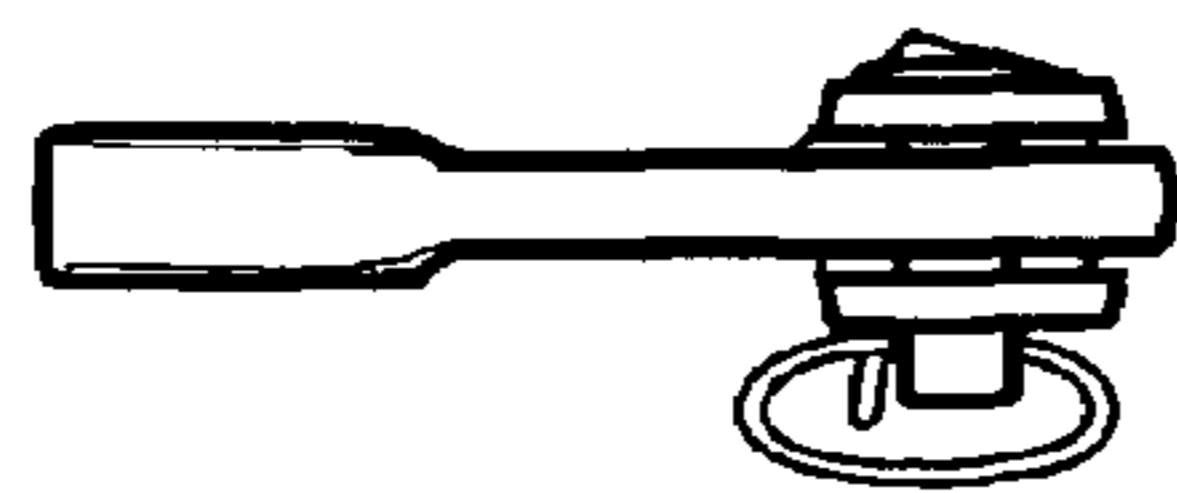
*Fig. 2*



*Fig. 3*



*Fig. 4*



*Fig. 5*