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

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(54) **WRENCH**

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(73) Assignee: **Chih-Min Chang**, Chang Hua Hsien (TW)

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

(21) Appl. No.: **29/283,487**

(22) Filed: **Aug. 15, 2007**

(51) **LOC (9) Cl.** ..... **08-05**

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

(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, 177.8, 177.9, 185.1, 81/3.4, 177.4, 492, 57, 58, 13, 177.7, 490, 81/415-423, 427.5; 140/119; 16/422, 186, 16/429

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,979,407 A \* 12/1990 Hernandez et al. .... 81/3.09  
5,832,795 A \* 11/1998 Reynolds ..... 81/180.1  
D420,263 S \* 2/2000 Wei ..... D8/28

6,079,299 A \* 6/2000 Sundstrom ..... 81/121.1  
D435,412 S \* 12/2000 Bentley ..... D8/38  
D443,189 S \* 6/2001 Li-Chen ..... D8/28  
6,352,235 B2 \* 3/2002 Cizek ..... 248/692  
6,904,833 B2 \* 6/2005 Wright ..... 81/121.1  
D506,908 S \* 7/2005 Hsien ..... D8/29  
D507,465 S \* 7/2005 Hu ..... D8/27  
D523,304 S \* 6/2006 Hsieh ..... D8/28  
7,270,032 B1 \* 9/2007 Hsieh ..... 81/121.1  
D554,454 S \* 11/2007 Hsieh ..... D8/28

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a wrench, as shown.

**DESCRIPTION**

FIG. 1 shows a perspective view of the present design.

FIG. 2 shows a right side elevational view of the present design.

FIG. 3 shows a top plan view of the present design.

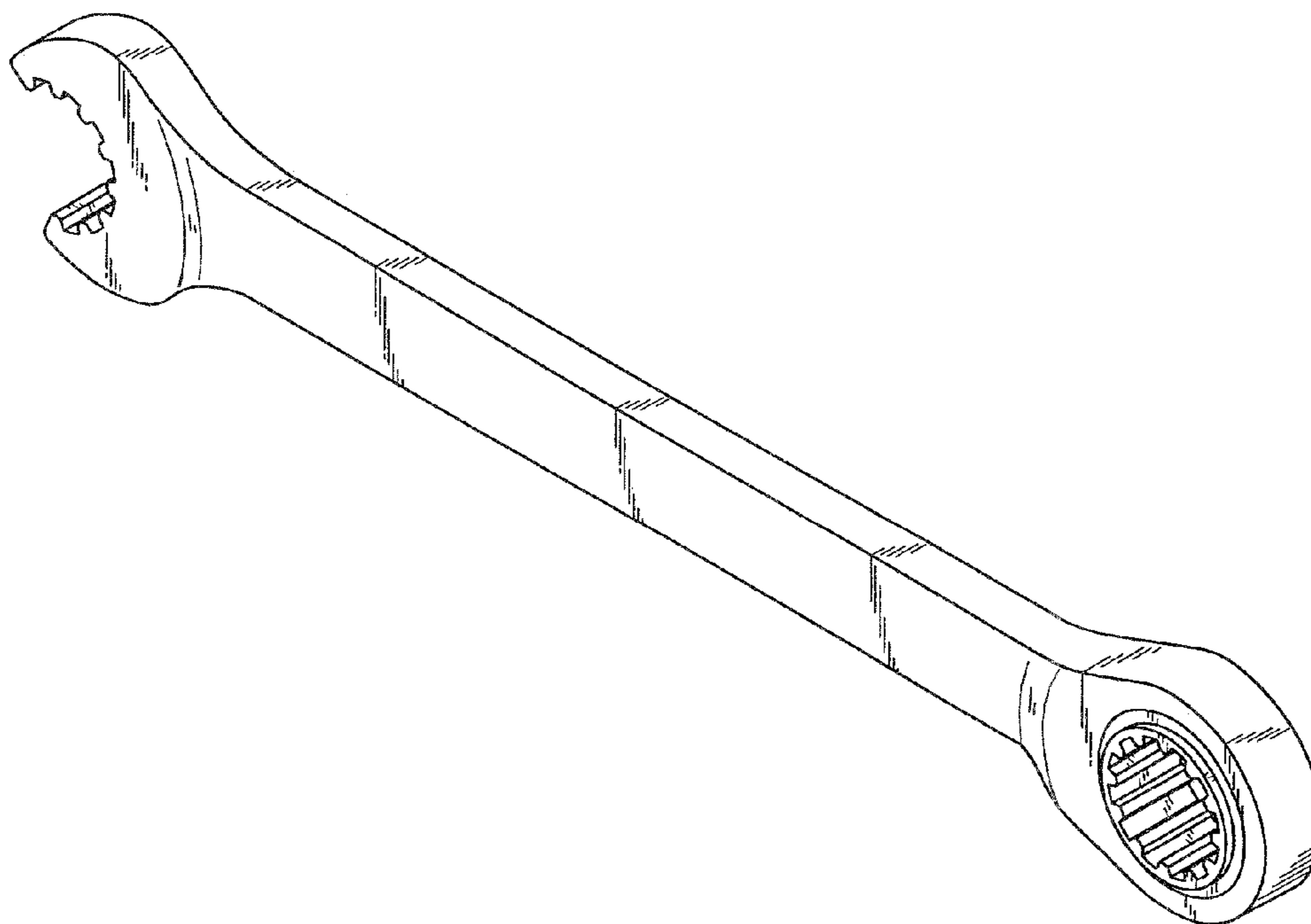
FIG. 4 shows a front elevational view of the present design.

FIG. 5 shows a bottom plan view of the present design.

FIG. 6 shows a left side elevational view of the present design; and,

FIG. 7 shows a rear elevational view of the present design.

**1 Claim, 4 Drawing Sheets**



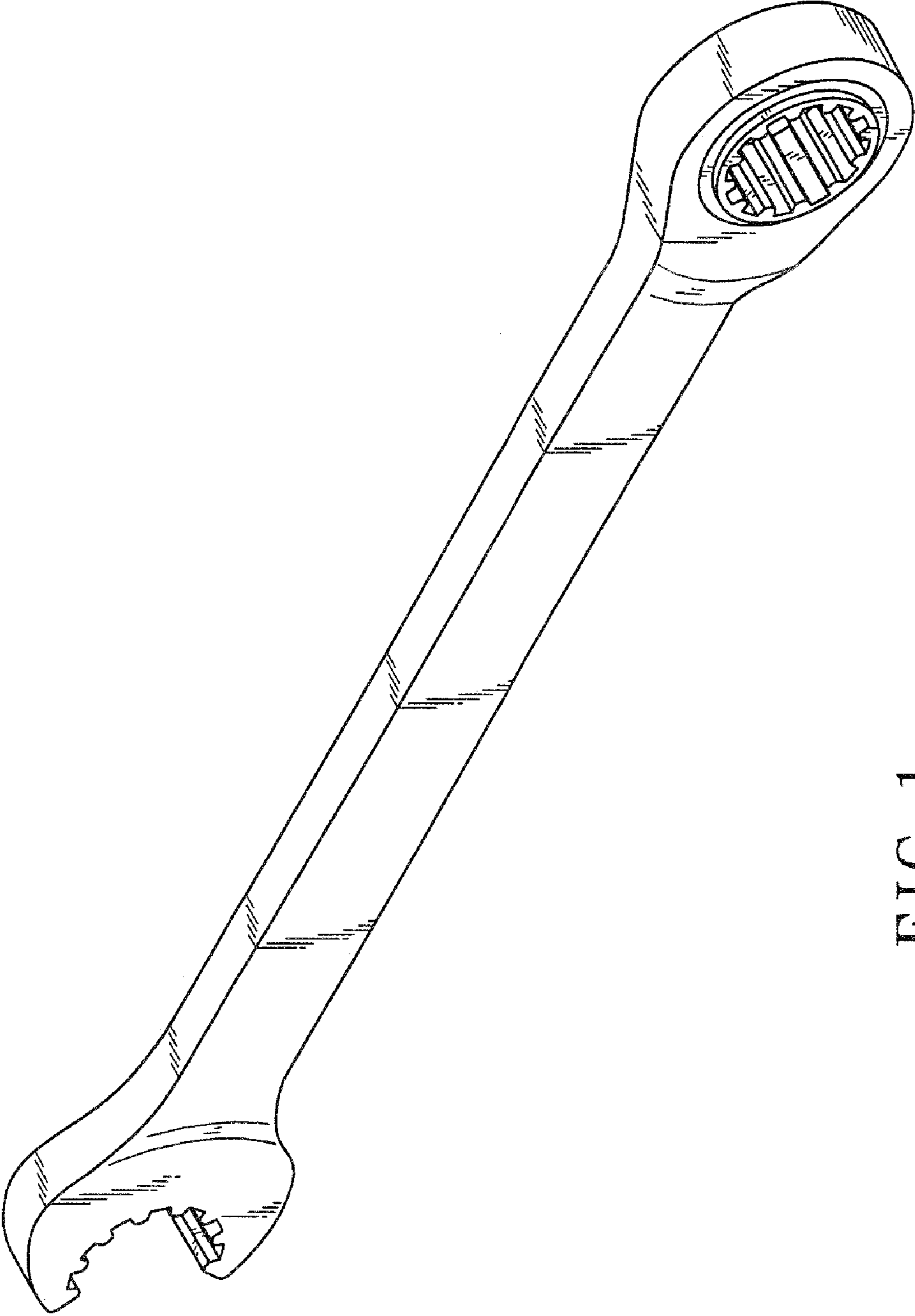


FIG. 1

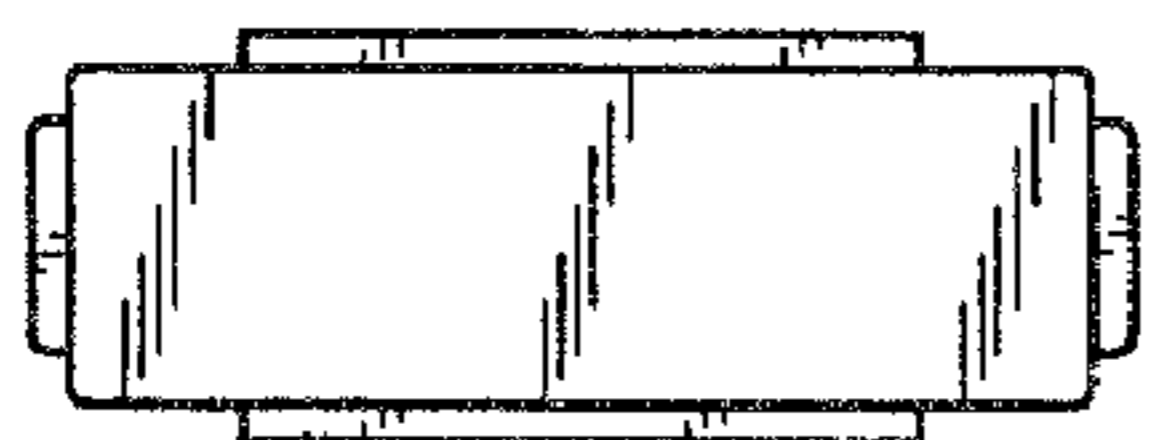


FIG. 2

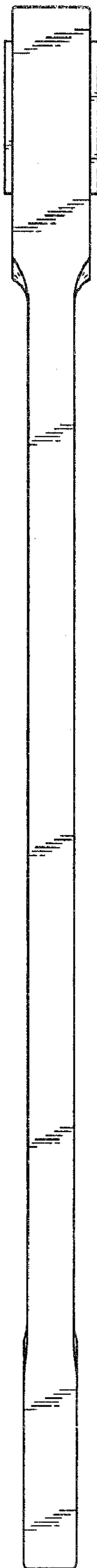


FIG. 3

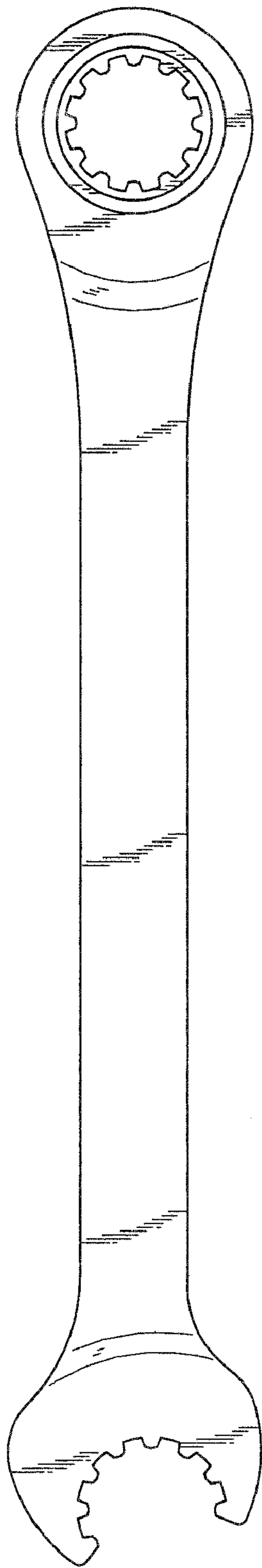


FIG. 4

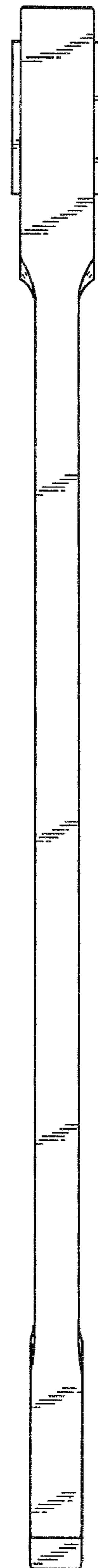


FIG. 5



FIG. 6

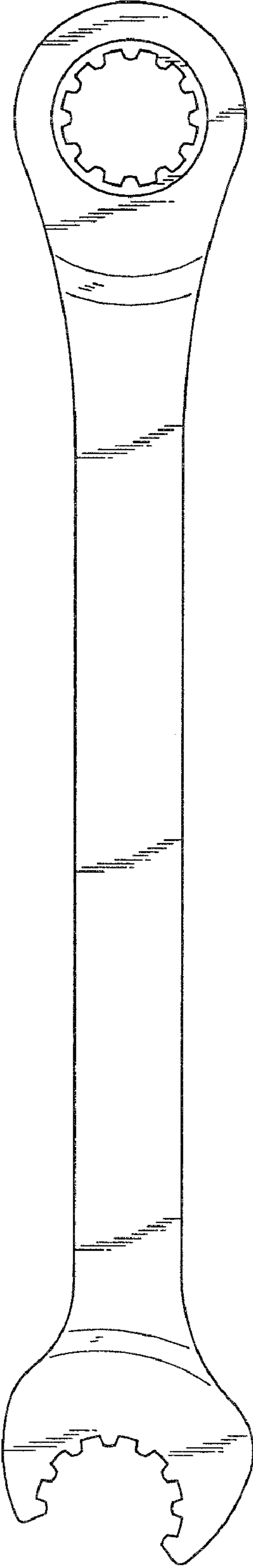


FIG. 7