

**EUROPEAN PATENT APPLICATION**

Application number: **85308532.2**

Int. Cl.4: **B25B 13/36**

Date of filing: **25.11.85**

Date of publication of application:  
**10.06.87 Bulletin 87/24**

Designated Contracting States:  
**AT BE CH DE FR GB IT LI NL SE**

Date of deferred publication of the search report:  
**19.11.87 Bulletin 87/47**

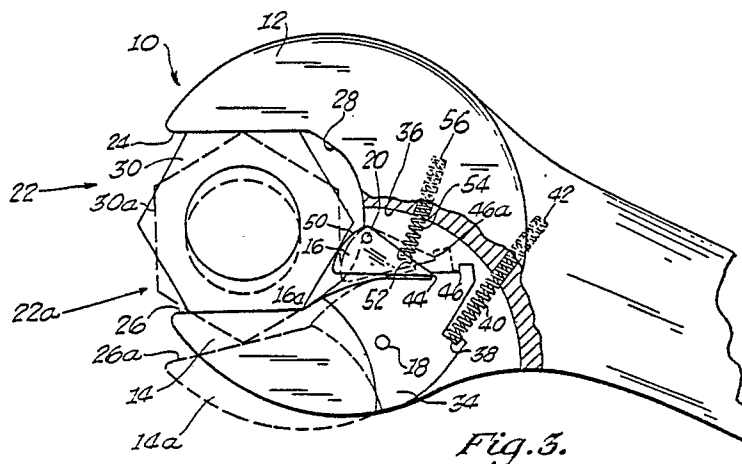
Applicant: **DeSantis, Ercele A.**  
**1759 Terrace Drive West**  
**Lake Worth Florida 33460(US)**

Inventor: **DeSantis, Ercele A.**  
**1759 Terrace Drive West**  
**Lake Worth Florida 33460(US)**

Representative: **Caro, William Egerton et al**  
**J. MILLER & CO. Lincoln House 296-302 High**  
**Holborn**  
**London WC1V 7JH(GB)**

**Open end ratchet wrench.**

Disclosed herein is an open-ended ratchet wrench which can turn a nut (30) in one direction in a conventional manner and which can have the open-ended jaws (14,24) expanded to allow the wrench to ratchet back around the nut. This is accomplished by providing a lower jaw member (14) pinned to the main body (12) which is held in a normal position by a pawl (16). When force is placed against the pawl, it rotates to allow the lower jaw member (14) to rotate to an expanded position. Both the lower jaw member (14) and the pawl (16) are biased to the normal position by springs. The lower jaw member is pinned to the main body by a cam (24) inserted into a cutout (36) in the main body.



*Fig. 5.*



EP 85 30 8532

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-3 901 106 (CAUSEY) * Column 1, lines 35-63; figures 1-3 *	1-6	B 25 B 13/46
A	US-A-2 721 493 (BERGLAND) * Column 1, lines 15-31; figures 1,2 *	1-6	
A	US-A-1 635 930 (FORSDAHL) * Column 1, lines 3-7; claim; figure 1 *	1,2	
A	US-A-2 846 912 (DAY) * Column 1, lines 67-71; column 2, lines 1-59; figures 1,2 *	1-6	
A	DE-U-6 604 348 (NEFF) * Claim 1; figure 1 *	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl.4)  B 25 B 13/00 B 25 B 17/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15-09-1987	Examiner CUNY J.M.J.C.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			