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PATENTED MAY 21, 1907.

N. W. GUDMUNDSON.  
WRENCH.

APPLICATION FILED SEPT. 25, 1906.

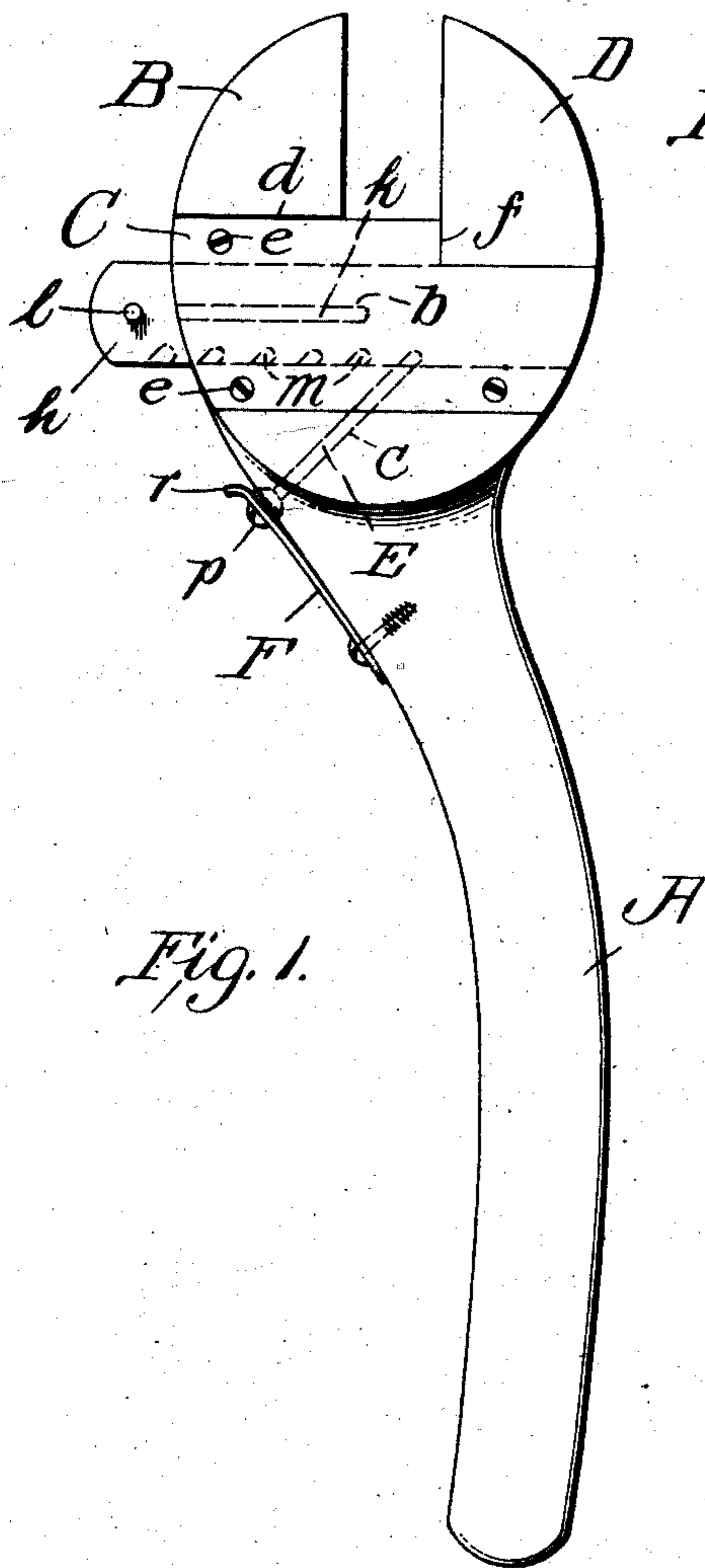


Fig. 2.

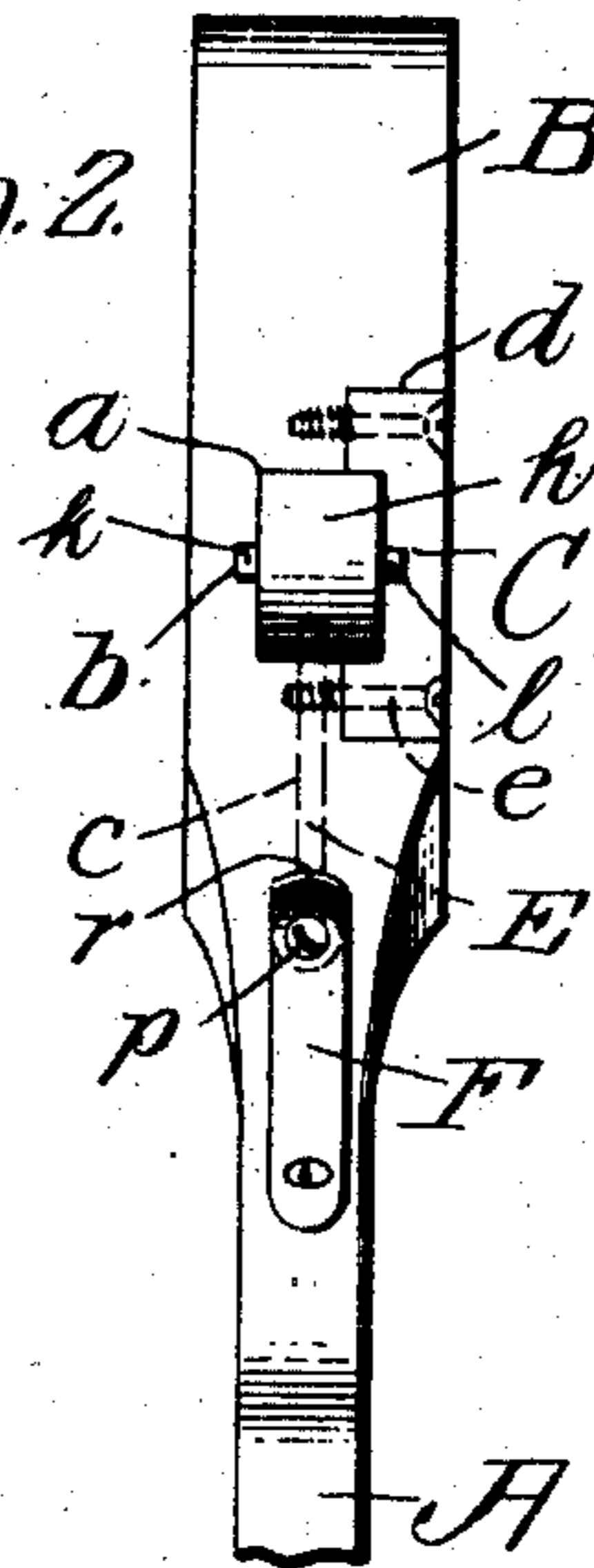
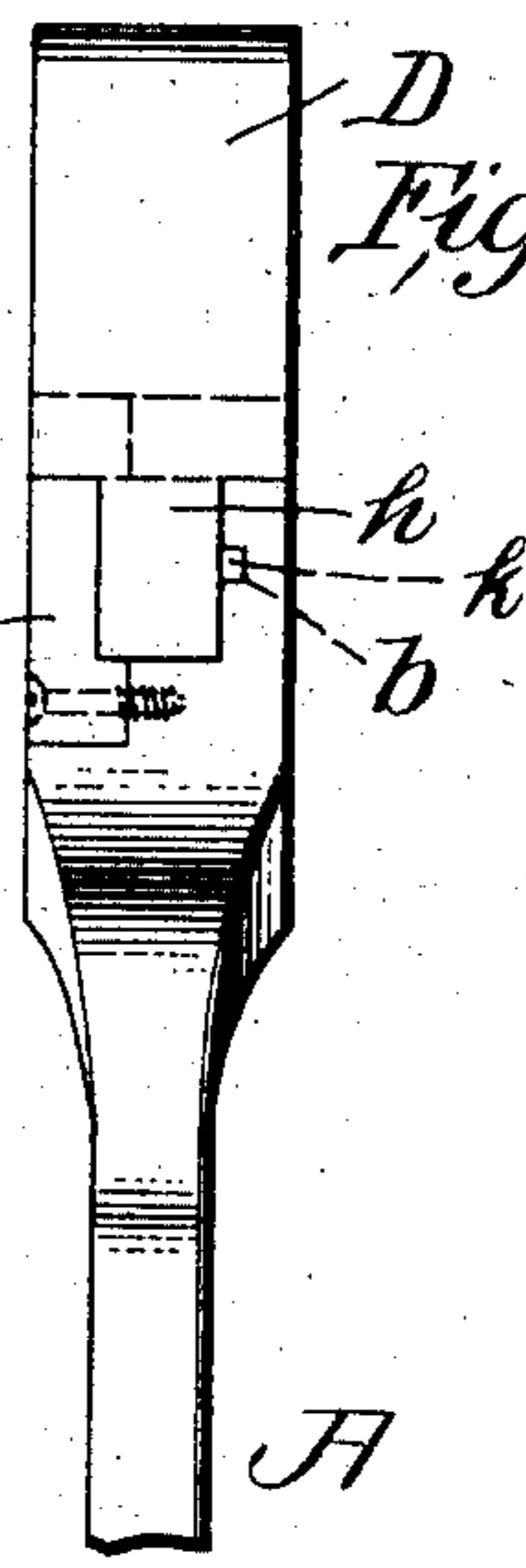


Fig. 3.



Witnesses

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## WRENCH.

No. 854,289.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed September 25, 1906. Serial No. 336,110.

*To all whom it may concern:*

Be it known that I, NIELS W. GUDMUNDSON, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake City and State of Utah, have invented new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to wrenches; and it contemplates the provision of a wrench embodying simple, strong and easily adjusted means through the medium of which it may be made to fit articles of various sizes.

The invention will be fully understood from the following description and claims when the same are read in connection with the accompanying drawings, forming part of this specification, in which:

Figure 1 is a side elevation of one style of wrench embodying my invention. Fig. 2 is an edge elevation of the said wrench. Fig. 3 is an elevation of the edge of the wrench opposite to that shown in Fig. 2.

Referring by letter to the said drawings: A is the handle of the wrench. This handle A is provided with an integral jaw B, and is also provided with a guideway or groove *a* and a longitudinal offset *b* extending from the inner wall thereof, and an oblique bore or passage *c* which extends from the bottom wall of the way or groove *a* to one edge of the handle A, as best shown in Figs. 1 and 2.

C is a plate arranged in a recess *d* in one side of the handle A and attached by screws *e* or other suitable means to the said handle. The major portion of the said plate C is shaped in cross-section as shown in Fig. 2; and it is provided with a shoulder or abutment *f*, Fig. 1, and a reduced portion *g*, Fig. 3.

D is the adjustable jaw of the wrench which is arranged when at its inner limit of adjustment to bring up against the shoulder *f* of the plate C, as shown in Fig. 1. The said adjustable jaw D has a shank *h* arranged and adapted to be moved in the guide formed by the way or groove *a* and the plate C; and it is provided on the said shank *h* with a longitudinal rib *k* and a stop *l*, and in the lower edge of the same with indentations *m* which are preferably obliquely disposed as illustrated. The rib *k* serves by snugly fitting the offset *b* to guide the shank of the adjustable jaw D in a true line, while the stop *l* serves by bringing up against one edge of the handle to limit the outward adjustment of the jaw D.

E is a pin movable endwise in the bore or passage *c* in handle A, and having its inner

end shaped to enter the indentations *m* in the shank *h* with a view of adjustably fixing the jaw D with respect to the jaw B. The outer end of the said pin E is headed and is connected by a screw *p* or other means to a flat spring F. This spring F is connected through a screw or other suitable means to the handle A at a point below the pin E, and its upper portion is extended beyond the said pin in order to form a finger-piece *r*, Fig. 1.

In the practical use of the embodiment described, it will be apparent that with the parts relatively arranged as shown in Fig. 1, the jaw D is adjustably fixed with respect to the jaw B. When, however, it is desired to increase or diminish the size of the space between the two jaws, the user of the wrench has but to press the upper end of the spring F away from the adjacent edge of the handle A, and then position the jaw D as desired, relative to the jaw B, and then release the said upper end of the spring so as to enable the same to force and hold the upper end of the pin E into the indentation *m* aligned with the bore or passage *c*, when the said pin E will obviously serve to adjustably fix the jaw D with respect to the jaw B.

It will be gathered from the foregoing that the construction permits of the jaw D being quickly and easily fixed in the position desired with respect to the jaw B, and yet said embodiment is simple and inexpensive in construction and is well adapted to withstand the usage to which wrenches are ordinarily subjected.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

1. A wrench comprising a handle having a way or groove in one of its sides and a recess in communication with said way or groove, a jaw integral with said handle, a plate arranged in the recess of the handle and detachably connected thereto and having a shoulder and a reduced end portion, a slidable jaw having a shank movable in the way or groove of the handle and between the handle and the plate and provided at intervals in its lower edge with oblique indentations, a pin disposed obliquely in a bore or passage in the handle, and a flat spring connected to the handle and the pin and tending normally to force the latter inward.

2. A wrench comprising a handle having a way or groove in one of its sides and a recess in communication with said way or

groove and also having a longitudinal offset  
in the inner wall of the way or groove and an  
oblique bore or passage extending from the  
bottom of the way or groove to one edge of  
5 the handle, a jaw integral with said handle, a  
plate arranged in the recess of the handle and  
detachably connected thereto and having a  
shoulder and a reduced end portion, a slidable  
jaw having a shank movable in the way or  
10 groove of the handle and between the handle  
and the plate; said shank being provided at  
intervals in its lower edge with oblique in-  
dentations, and on one of its sides with a lon-  
gitudinal rib movable in the offset of the han-  
15 dle, a pin occupying the oblique bore of the  
handle, and a flat spring connected to the  
handle and the pin and having a finger-piece  
extending beyond the pin.

3. The combination in a wrench, of a han-

dle having a fixed jaw and also having a 20  
guideway disposed at a right angle to the face  
of the jaw, and an oblique bore or passage ex-  
tending from one of its edges to said guide-  
way, a sliding jaw having a shank disposed in  
the guideway of the handle and also having 25  
oblique indentations in said shank at inter-  
vals in the length thereof, and a spring-  
pressed pin occupying the bore or passage of  
the handle and arranged to enter the inden-  
tations of the shank. 30

In testimony whereof I have hereunto set  
my hand in presence of two subscribing wit-  
nesses.

NIELS W. GUDMUNDSON.

Witnesses:

ROBERT SWENSON,  
JOHN WAGNER.