

(No Model.)

R. W. DAVIS.
WRENCH.

No. 286,913.

Patented Oct. 16, 1883.

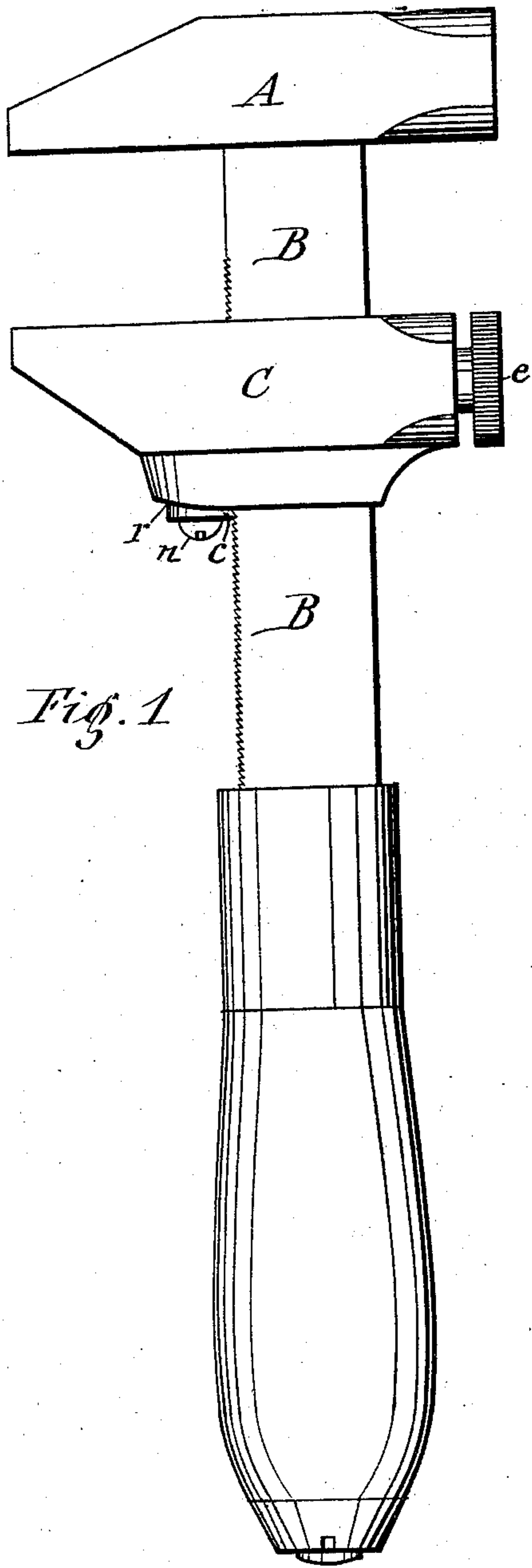


Fig. 1

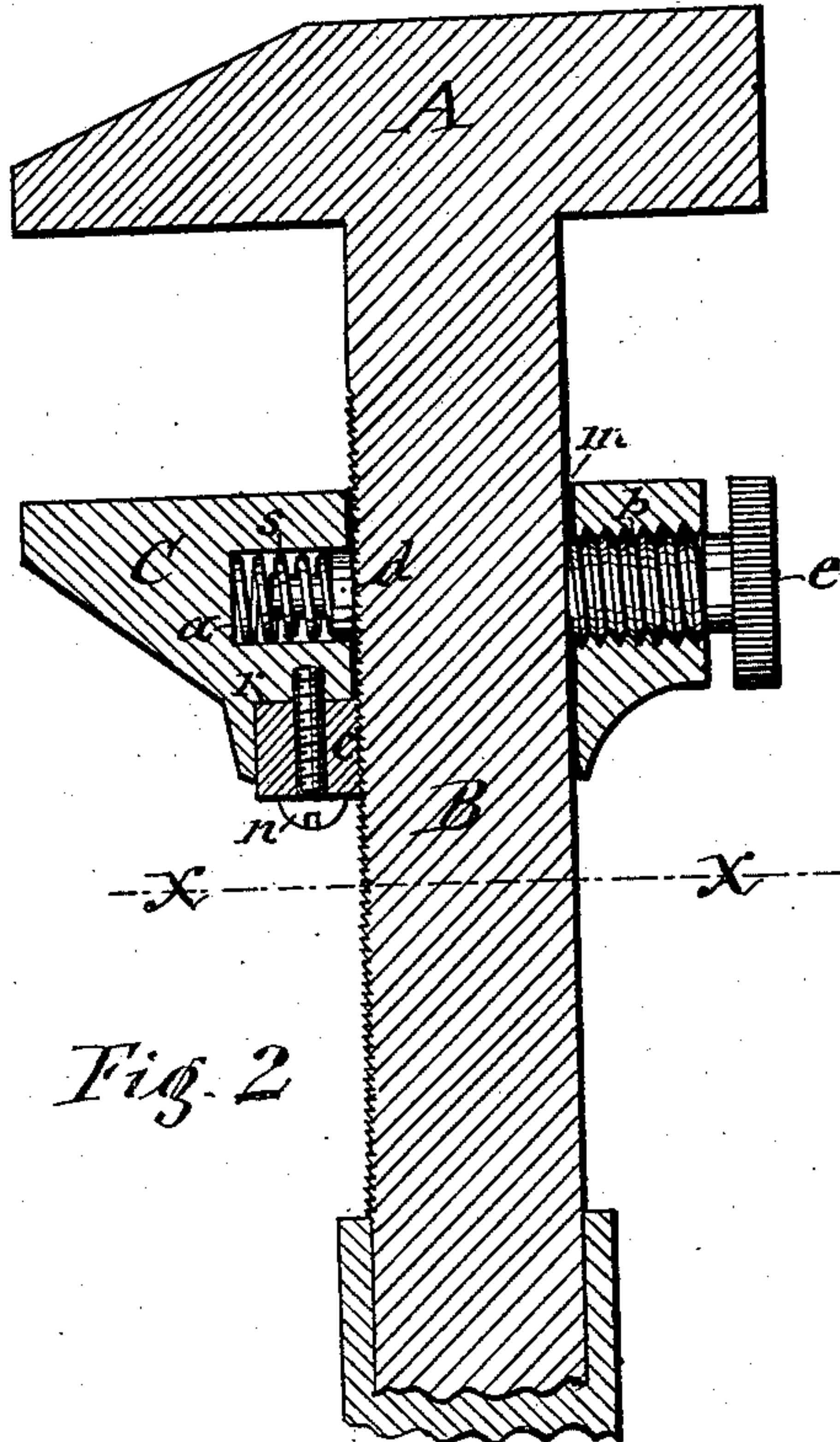


Fig. 2

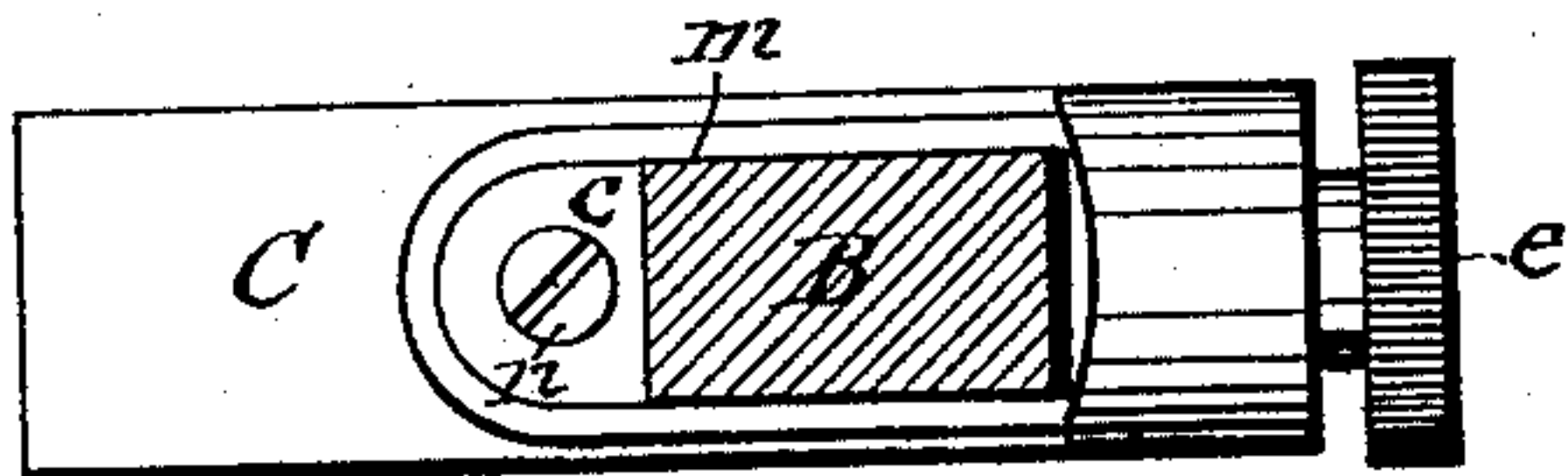


Fig. 3

WITNESSES:

Chas. Bendixon

Wm. B. Raymond

INVENTOR:

Robert W. Davis

per Duell, Laass & Hey
his Attys

UNITED STATES PATENT OFFICE.

ROBERT W. DAVIS, OF ELMIRA, NEW YORK, ASSIGNOR TO THE DAVIS
WRENCH COMPANY, OF SAME PLACE.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 286,913, dated October 16, 1883.

Application filed March 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. DAVIS, of Elmira, in the county of Chemung, in the State of New York, have invented new and useful
5 Improvements in Wrenches, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to that class of
10 wrenches which are designated "monkey-wrenches," my invention consisting in a novel construction and combination of the constituent parts of said wrench, whereby compactness, stability, and durability, combined with
15 lightness of structure, are imparted thereto, and greater range of work and increased facility of its adjustment to the work are obtained.

The invention is fully illustrated in the annexed drawings, wherein Figure 1 is a side
20 view of my improved wrench. Fig. 2 is a vertical longitudinal section of the same; and Fig. 3, a transverse section on line *xx*, showing the under side of the movable jaw of the
25 wrench.

Similar letters of reference indicate corresponding parts.

A denotes the stationary jaw, fixed to the end of the shank B of the wrench in the usual
30 manner. Said shank I provide with a serrated or transversely creased face extended the length of one side thereof, preferably the side facing the gripping end of the jaws.

C represents the adjustable jaw, which I
35 provide on the side adjacent to the serrated face of the shank B with a serrated bearing, *c*, in the form of semicircular block fitted in a corresponding semicircular socket, *r*, in the under side of the jaw C, and secured therein
40 by a screw, *n*, passing through the center of said block, and serving as a pivot upon which the block may turn to accommodate itself to any lateral motion of the jaw which may be produced by the wear on the mortise *m* of the
45 jaw, and on the sides of the shank B sliding through said mortise, thereby invariably obtaining a secure hold for the serrated block on the serrated face of the shank B. The mortise *m* of the jaw C is sufficiently elongated be-
50 tween the serrated side and opposite side of

the shank B to allow the jaw to play laterally and carry the serrated block *c* out of engagement with the serrated side of the shank B. The interior of the jaw C is provided
55 with a socket, *a*, extended at right angles from the side of the mortise *m* adjacent to the serrated face of the shank B. In said socket *a* slides a bolt or piston, *d*, which is backed by a spring, *s*, by means of which the jaw C is crowded laterally to keep the serrated block
60 *c* clear of the serrated side of the shank B. Through the back of the jaw C is extended a screw-threaded socket, *b*, which is in range with the socket *a*, so that it can be drilled at the same time. In the socket *b* works a set-
65 screw, *e*, by the tightening of which against the back of the shank B the jaw C is drawn toward the set-screw, and the serrated block *c* is thus caused to engage with the serrated face of the shank, and thereby firmly retain
70 the jaw C in its position. It will be observed that by slackening the set-screw the jaw C is released to allow it to freely slide on the shank B, and thus to be readily set up to its work, and then by simply turning the set-
75 screw *e*, which can be manipulated by the same hand which holds the wrench, the jaw C is quickly and securely retained in its afore-said position.

Having described my invention, what I
80 claim as new, and desire to secure by Letters Patent, is—

1. In combination with the serrated shank B, provided with the fixed jaw A, the jaw C, adapted to slide on said shank, and provided
85 with the sockets *a* and *b*, and with the serrated bearing *c*, the spring-bearing *d* in the socket *a*, and the set-screw *e* in the socket *b*, substantially as shown and set forth.

2. In combination with the serrated shank
90 B, provided with the fixed jaw A, the jaw C, adapted to slide on said shank, and having the sockets *a* and *b* in range with each other, the bolt *d* and spring *s*, seated in the socket *a*, the set-screw *e* in the socket *b*, and the serrated
95 block *c*, detachably connected to the jaw, substantially as described and shown.

3. In combination with the serrated shank B, provided with the fixed jaw A, the jaw C, adapted to slide on said shank, and provided
100

with the spring-bearing *d*, set-screw *e*, and
semicircular socket *r*, and the serrated block
c, pivoted in said socket by the attaching-
screw *n*, all constructed and combined sub-
5 stantially as described and shown.

In testimony whereof I have hereunto signed
my name and affixed my seal, in the presence

of two attesting witnesses, at Elmira, in the
county of Chemung, in the State of New York,
this 17th day of March, 1883.

ROBERT W. DAVIS. [L. S.]

Witnesses:

A. W. DAVIS,

F. G. HALL.