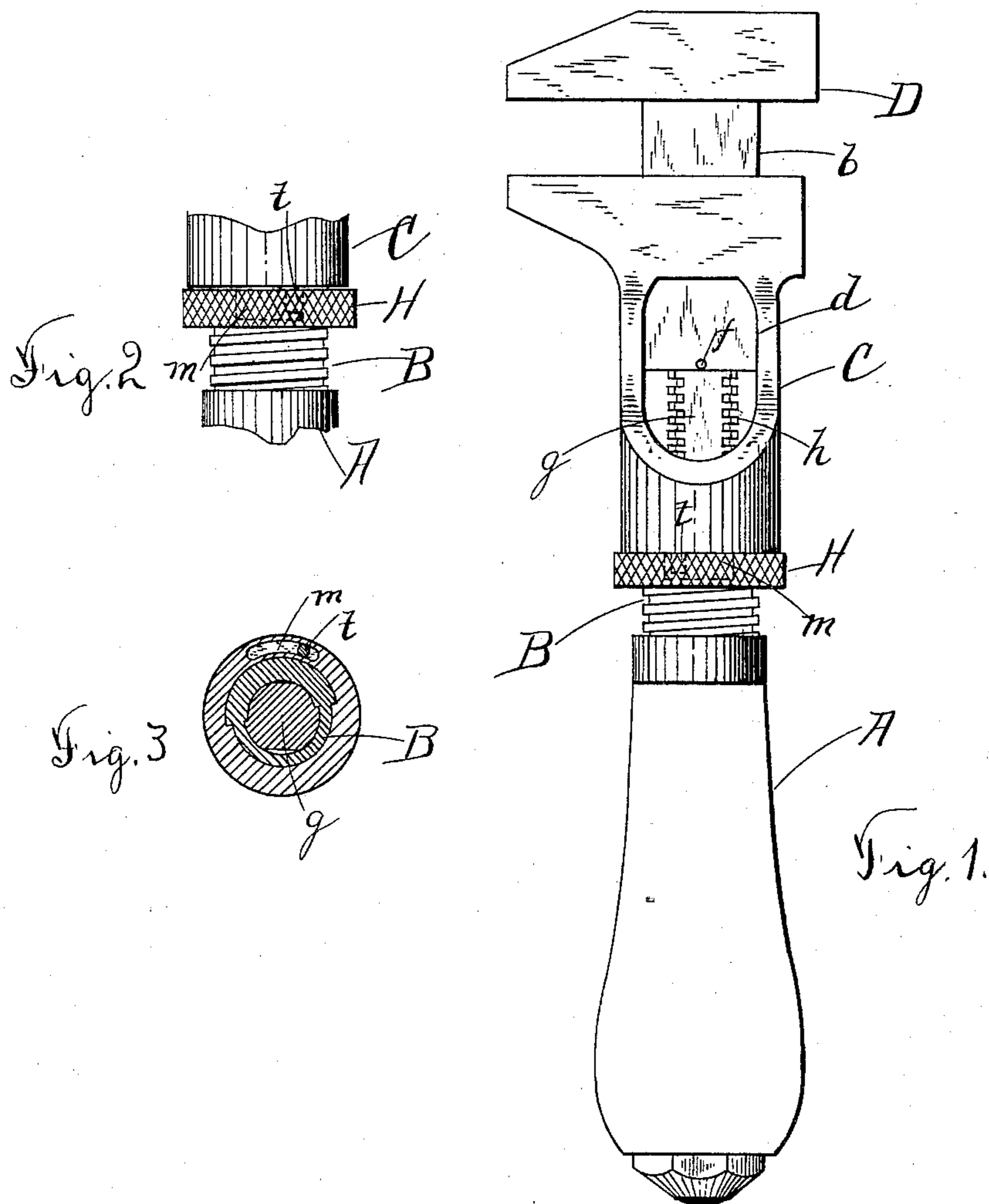


(No Model.)

H. BORNSTEIN.
WRENCH.

No. 434,912.

Patented Aug. 26, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY BORNSTEIN, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO CHARLES GREEN, OF SAME PLACE.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 434,912, dated August 26, 1890.

Application filed June 17, 1890. Serial No. 355,728. (No model.)

To all whom it may concern:

Be it known that I, HENRY BORNSTEIN, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and
5 useful Improvements in Wrenches, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention
10 appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of my improved wrench; Fig. 2, a sectional elevation showing
15 the check-nut turned away from the jaw, and Fig. 3 is a vertical transverse section taken through the check-nut.

Like letters of reference indicate corresponding parts in the different figures of the draw-
20 ings.

My invention relates especially to that class of wrenches known as "monkey-wrenches;" and it consists in certain novel features hereinafter fully set forth and claimed, the object
25 being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all con-
30 versant with such matters from the following explanation.

In the drawings, A represents the handle of the wrench, and B the body, on one end of which said handle is mounted. The body
35 is exteriorly screw-threaded, and is interiorly tapped and screw-threaded. The movable jaw C is hollow, and is interiorly threaded to receive the body B. The fixed jaw D has a stem *b*, rectangular in cross-section, which is
40 fitted to slide in the corresponding mortise in the jaw C. Two sides of the jaw C are open at *d*, and a stop *f* projects into said openings. The inner end of the stem *b* is reduced at *g*, and has its edges screw-threaded
45 at *h* to work in the interior threads of the body B. A check-nut H is mounted on the body B in position to be turned into engagement with the lower end of the movable jaw C. Said nut is provided with a curved groove

or chamber *m* in its upper edge, and a pin or boss *t* formed on the lower end of said jaw C projects into said chamber.

In the use of my improvement, by turning the handle A from left to right, as viewed in Fig. 1, and holding the jaw C stationary, the
55 jaw D is forced rapidly out from the jaw C, the threaded body B at the same time advancing into said jaw C, this movement quickly opening the wrench-jaws. When adjusted at the proper distance to receive the
60 nut, the check-nut H may be quickly turned up against the jaw C, preventing it from accidentally turning on the body B. By means of the pin *t* projecting into the chamber in
65 said nut, said nut is prevented from being turned away from the jaw sufficiently to interfere with the movement of the body B therethrough. The nut is, moreover, held by
70 said pin so that it may be quickly turned against the jaw when it is desired to secure the same. This enables the wrench when
employed continuously upon work of the same size to be readily handled without repeatedly
75 adjusting the jaws, as is necessary in wrenches of ordinary construction.

Having thus explained my invention, what I claim is—

1. In a wrench, an interiorly and exteriorly screw-threaded body provided with a handle, in combination with a movable jaw interiorly
80 threaded to receive said handle and sliding on the stem of the fixed jaw, a portion of said stem being reduced and threaded to work in said body, a check-nut on said body pro-
85 vided with a groove or chamber, and a pin on said movable jaw projecting into said chamber, substantially as described.

2. In a wrench, an interiorly and exteriorly screw-threaded body provided with a handle, in combination with a fixed jaw having a rect-
90 angular stem, the inner end of said stem being reduced and screw-threaded on opposite edges to work in said body, a movable jaw fitted to slide on the rectangular portion of
95 said stem and interiorly screw-threaded to receive said body, a stop on said stem, a check-nut on said body, and a pin on said movable jaw projecting into a curved groove

or chamber in said nut, all being combined and arranged to operate substantially as set forth.

3. In a wrench, the interiorly and exteriorly
5 screw-threaded body B, provided with the handle A, in combination with the jaw B, having the stem *b* reduced and screw-threaded at *g*, the stop *f* on said stem, the jaw C, sliding on said stem and interiorly screw-threaded

to receive said body, the nut H on said body, 10 provided with the chamber *m*, and the pin *t* on said movable jaw projecting into said chamber, substantially as and for the purpose set forth.

HENRY BORNSTEIN.

Witnesses:

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