C. M. JORDAN.

WRENCH.

No. 183,266. Patented Oct. 17, 1876.

Fig 1.

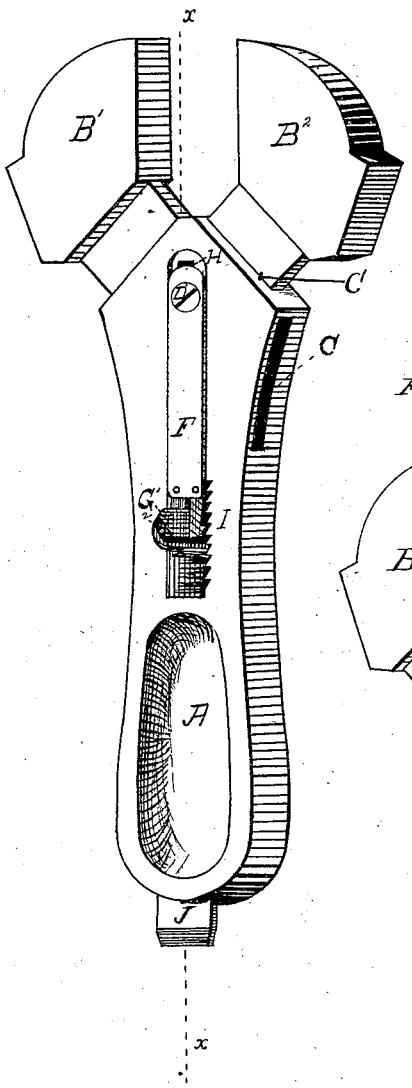


Fig 2.

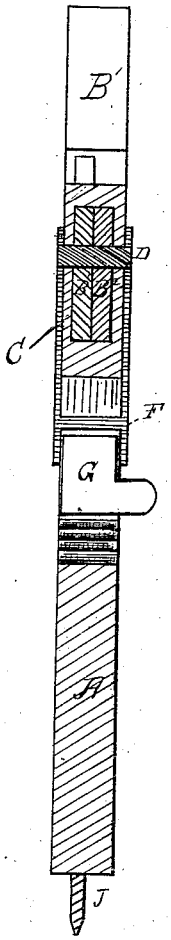
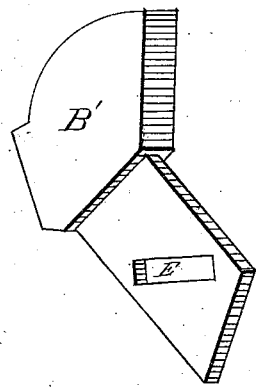


Fig 3.



WITNESSES:

J. F. Jones

W. N. Chamberlin.

INVENTOR;

Charles M. Jordan.

UNITED STATES PATENT OFFICE.

CHARLES M. JORDAN, OF STILLWATER, MINNESOTA.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **183,266**, dated October 17, 1876; application filed October 2, 1876.

To all whom it may concern:

Be it known that I, CHARLES M. JORDAN, of Stillwater, in the State of Minnesota, have invented a new and useful Improvement in Wrenches, of which the following is a specification:

The object of this invention is to construct a wrench that is easily and quickly adjusted, compact, and that can be used where it would be impossible to use the common monkey-wrench; and it consists in the diagonally-sliding jaws B^1 B^2, diagonal slots C, pin D, slot E, strap F, groove H, dogs G, and racks I, in combination with the handle A, arranged to operate as shown and described, and the screw-driver J, as seen in the accompanying drawing.

Figure 1 is a side view. Fig. 2 is a longitudinal section through the line *x x*. Fig. 3 is a side view of one of the jaws B^1.

Similar letters of reference indicate corresponding parts.

A is the handle, having in its upper end two diagonal slots, C, so arranged as to allow the jaws to slide upon each other, as seen at B^1 B^2, Fig. 2. B^1 B^2 are two diagonally-sliding jaws, sliding in the slots C, having a slot, E, Fig. 3, in each of their shanks. D is a pin running through the grooves H, in the handle A, and slots E, in the jaws B^1 B^2, and attached at both ends to the strap F, which has two dogs pivoted to its lower end, and sliding in a slot cut in the handle to receive it and the dogs. G^1 G^2 are two dogs pivoted to the strap F and sliding with it. They work in the racks I, and thereby hold the jaws in any position desired. The dogs have a spring between them to press them against the racks. Thus, by pressing the dogs together, the strap F may be moved up or down, carrying the pin D, which presses against the sides of the slots E, thereby drawing the jaws B^1 B^2 in or out, and adjusting them to the size of the nut required to be moved. I is a rack on one or both sides of the slot, and retains the dogs G.

The strap F may also be worked by a screw having a milled head and a journal at each end resting in bearings in the handle A, the strap F having a threaded hole at its lower end. J is the screw-driver, set in the end of the handle either by casting or otherwise.

It will be seen that when the wrench is in operation the dog, strap, and pin are relieved of considerable pressure by the jaws pressing against the back and front of the slots C.

The advantages of this invention will be readily understood and appreciated by mechanics as well as others engaged in mechanical pursuits.

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

The handle A, having slots C C, groove H, with ratcheted side, in combination with jaws B^1 B^2, having slotted extensions, and with strap F, pivoting-pin D, and spring-dog G, as and for the purpose described.

CHARLES M. JORDAN.

Witnesses:

J. F. JONES,

W. N. CHAMBERLIN.