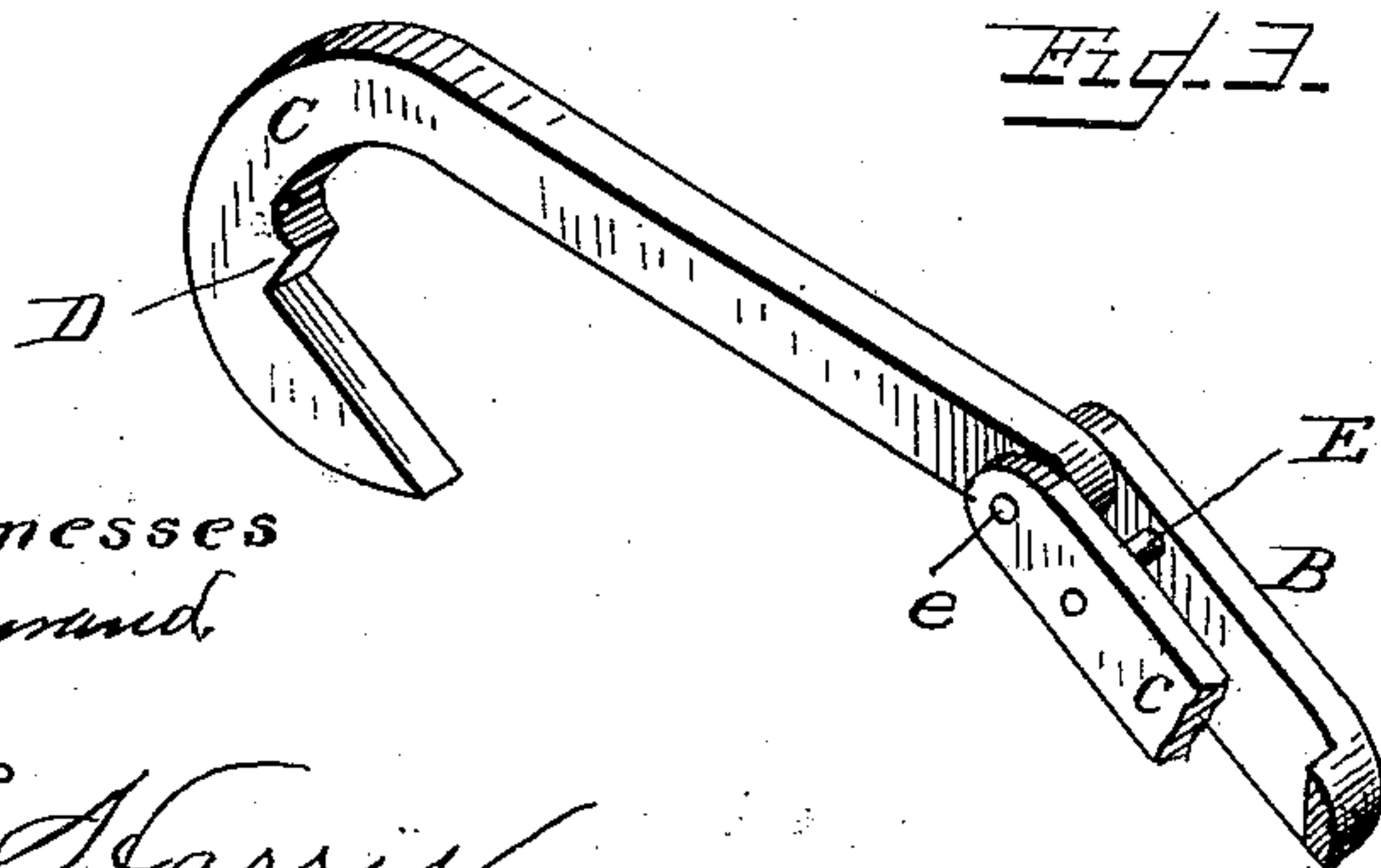
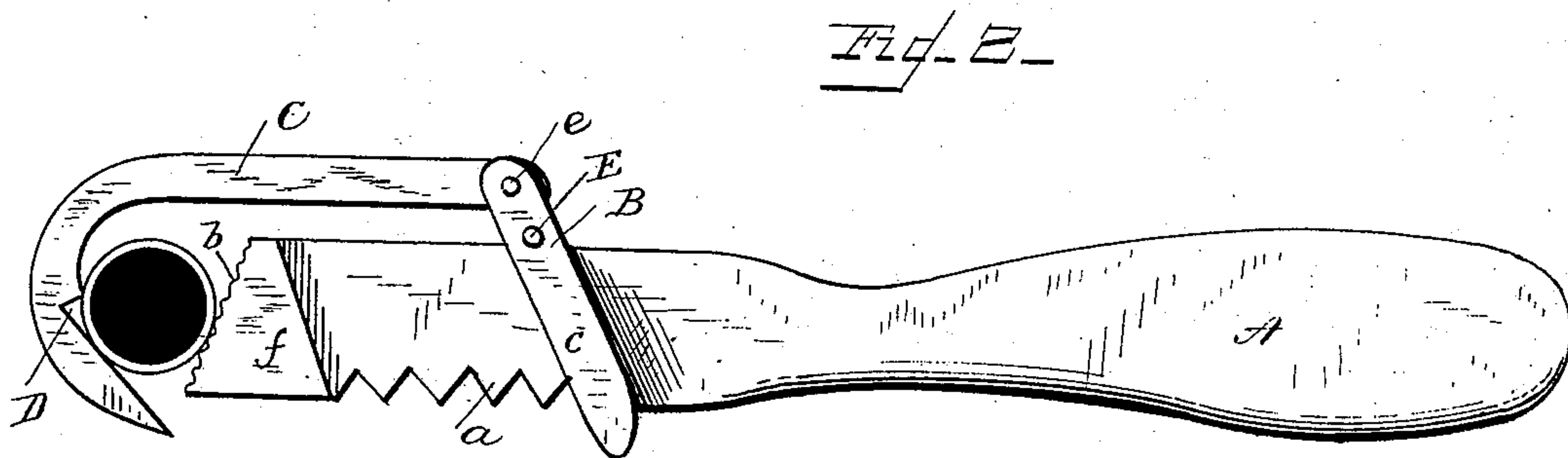
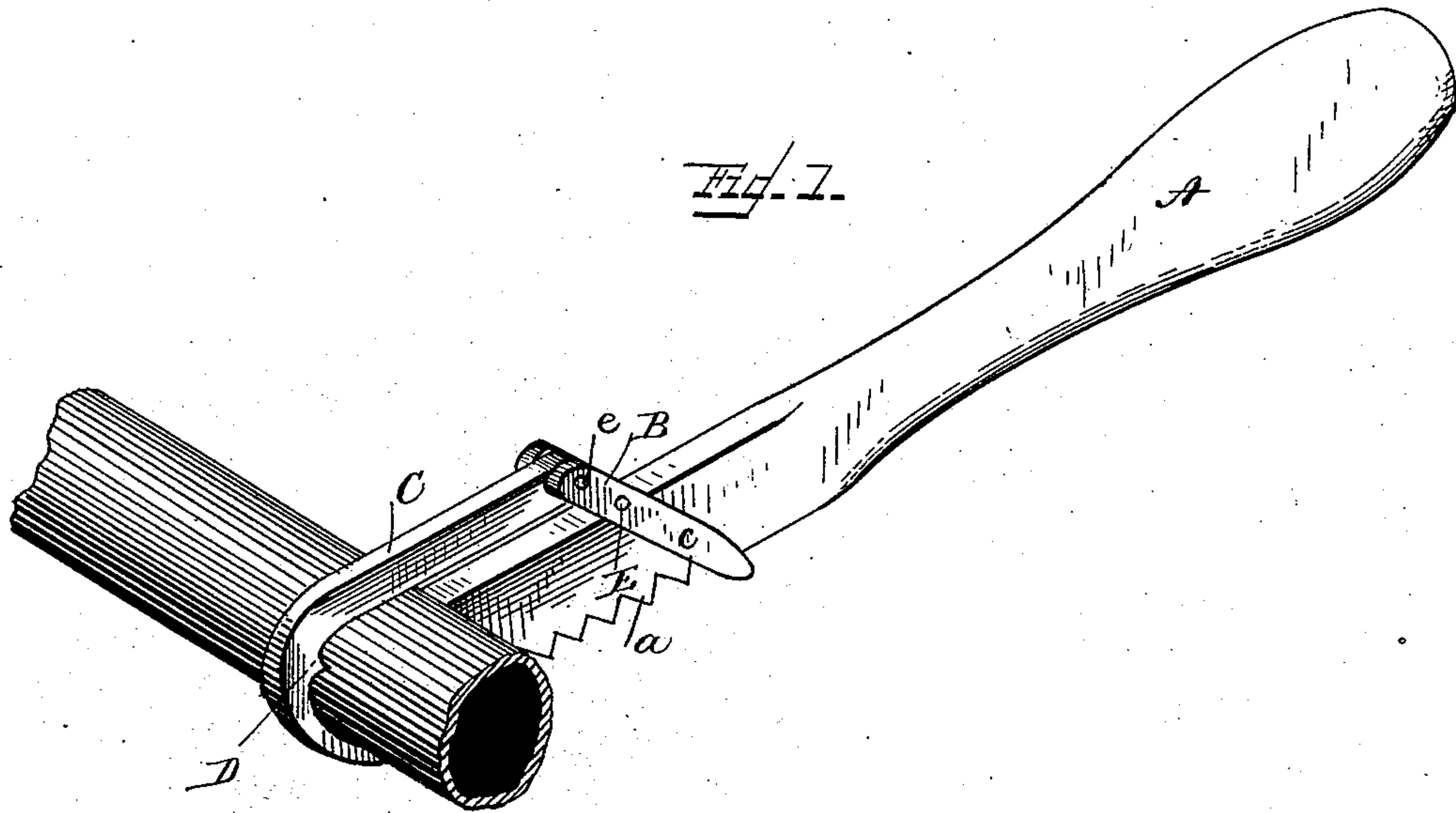


(No Model.)

W. L. PARKER.
WRENCH.

No. 311,202.

Patented Jan. 27, 1885.



Witnesses
F. L. O'Connell

W. L. Harris

W. L. Parker
Inventor

by C. A. Snow & Co.
Attorney

UNITED STATES PATENT OFFICE.

WASHINGTON LAFAYETTE PARKER, OF SPARTANBURG, SOUTH CAROLINA,
ASSIGNOR OF ONE-HALF TO EDWARD McDOWELL, OF SAME PLACE.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 311,202, dated January 27, 1885.

Application filed April 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, WASHINGTON LAFAYETTE PARKER, a citizen of the United States, residing at Spartanburg, in the county of Spartanburg, State of South Carolina, have invented a new and useful Wrench, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to wrenches, and it has for its object to provide a device of this character which shall be cheap, simple in its construction, and durable in its use, and, further, to provide a wrench which shall be extremely simple, yet thoroughly effective, in its operation.

My invention consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a wrench embodying my invention. Fig. 2 is a side view of the same, showing the wrench adjusted in position for operation, and Fig. 3 is a detail view in perspective of the sliding sleeve or collar and the jaw or hook pivoted thereto, a portion being broken away to show the construction more clearly.

In the accompanying drawings, in which like letters indicate corresponding parts in the several figures, A represents the handle, which is formed upon its lower edge, a short distance from the forward end thereof, with a series of teeth, *a*, which incline in a rearward direction. The end of this handle A is cut off diagonally, as shown, and said cut off end is provided with serrations *b*, adapted to bear against the object to be operated upon, to prevent any liability of slipping.

B represents a sliding sleeve or collar, which consists of the parallel sides *c*, the lower end of said sides being connected by means of a transverse bar, *d*, having an inclined or oblique face, said bar engaging the teeth upon the under side of the handle C, to prevent said collar from slipping when the wrench is being operated. It also serves to prevent the disengagement of the said collar or sleeve from the handle. Between the other ends of the sides *c* is pivoted, by means of a transverse bolt, *e*, the

jaw or hook C, said hook or jaw C having its forward or front end turned inwardly to form a tooth or projection, D, which, in connection with the serrated end of the handle, is adapted to grasp and firmly hold the object to be operated upon, the cross bar *d* being beveled in order that it may more firmly engage the notches or teeth upon the under or lower edge of the handle A.

Between the sides of the sliding collar or sleeve B, adjacent to the point at which the jaw or hook C is pivoted, is provided a transverse bar, E, which is adapted to limit the vertical movement of the said collar upon the handle, and also to prevent the contact of the handle with said pivoted jaw C, as would otherwise be the case. The pivoted jaw is, however, allowed ample room, and its free working is not interfered with by said bar. Upon the forward end of the collar is provided a raised portion, *f*, which forms shoulders, thus preventing any possibility of the sliding sleeve slipping from the handle.

In the operation of the above-described wrench the hook or jaw C is placed over or around the pipe or other object to be turned, the lever or handle A brought to bear against the opposite side, the adjustment being made by slipping or sliding the sleeve B along the handle A and lodging it in any notch that will give the grip. When power or leverage is exerted, the handle will tighten on the pipe or other object, and the same may then be readily turned.

It will be seen from the above description that a wrench constructed in accordance with my invention is simple in its construction; that the parts are not liable to become disarranged or out of working order; that the adjustment of the wrench upon the pipe may be almost instantaneously obtained; that it affords great power; that it may be manufactured and supplied at a comparatively slight cost, and that it is also light and durable.

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

In a pipe-wrench, the combination, with a suitable handle, A, formed on one of its edges

with the teeth *a*, of the sliding collar or sleeve
B, formed with the transverse bar *d*, having
an inclined face to engage the teeth, the jaw
or hook C, pivoted to the sleeve or collar, a
5 bar, E, arranged below the pivot of the hook,
to prevent the contact of the latter with the
handle, the forward end of the hook or jaw
extending around the front end of the handle,
the action of the hook or jaw drawing the
10 sleeve or collar in an inclined position on the

handle to cause the bar *d* to engage with the
teeth more firmly, as and for the purpose set
forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in 15
presence of two witnesses.

WASHINGTON LAFAYETTE PARKER.

Witnesses:

WALTER H. MITCHELL,
S. T. McCUNNY.