(No Model.)

L. M. COBB.

PIPE AND NUT WRENCH.

No. 464,274. Patented Dec. 1, 1891.

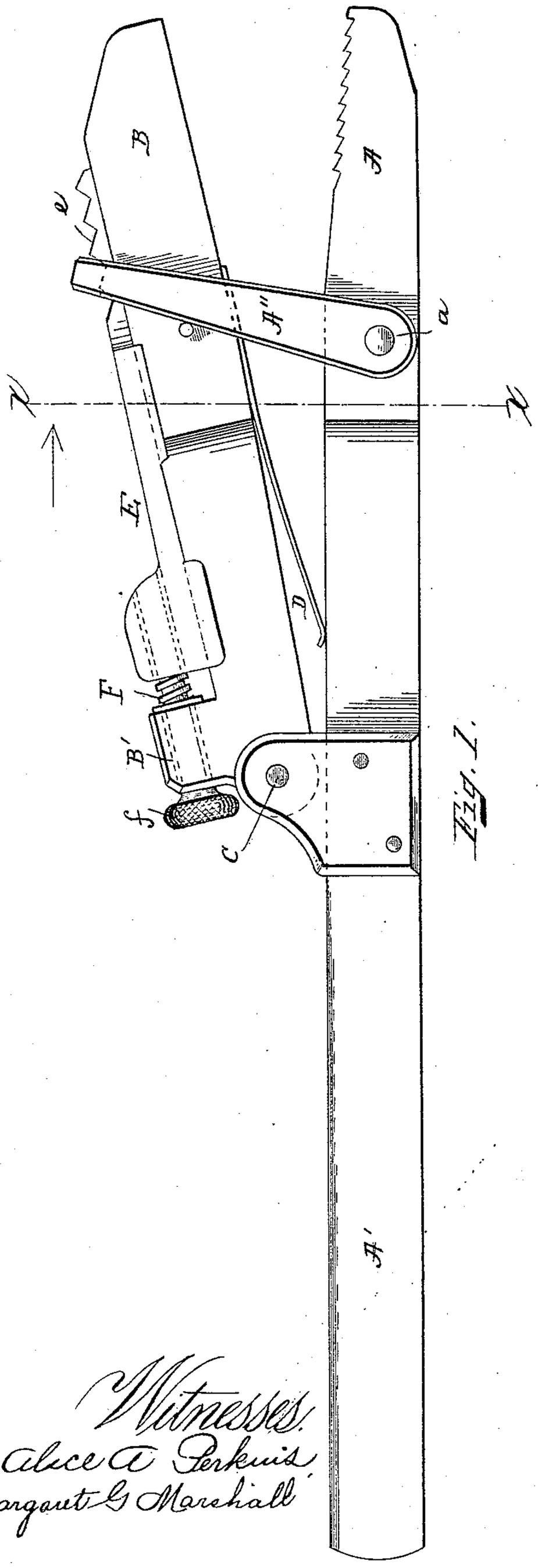

Fig. 1.

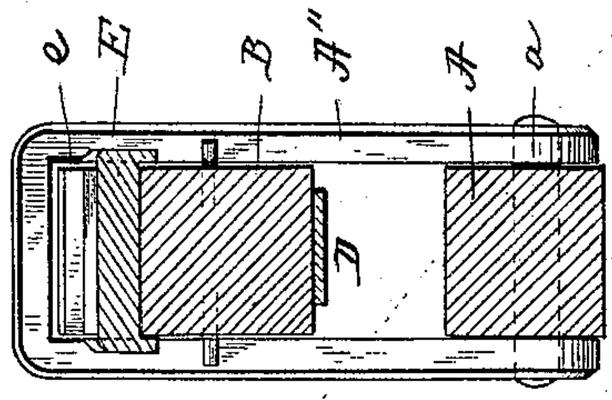

Fig. 2.

Witnesses.
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his atty.

UNITED STATES PATENT OFFICE.

LEANDER M. COBB, OF BOSTON, ASSIGNOR OF ONE-HALF TO ALLEN COLBURN, OF WORCESTER, MASSACHUSETTS.

PIPE AND NUT WRENCH.

SPECIFICATION forming part of Letters Patent No. 464,274, dated December 1, 1891.

Application filed September 30, 1891. Serial No. 407,218. (No model.)

To all whom it may concern:

Be it known that I, LEANDER M. COBB, a citizen of the United States and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Pipe and Nut Wrenches, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in pipe and nut wrenches; and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a side elevation of the improved wrench; and Fig. 2 represents a cross-section on the line X X, shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention consists of a pair of jaws which I term, respectively, the "stationary jaw" A and "movable jaw" B, the latter being pivoted to the former at C, as shown. The stationary jaw A is extended beyond the pivot C in the form of a handle A′, which may be made of any suitable shape or material without departing from the essence of my invention.

D is a spring interposed between the jaws for the purpose of automatically expanding the movable jaw when released.

One or both of the inner faces of the jaws may be serrated, as may be desired. On the outside of the movable jaw B is arranged a longitudinally-adjustable plate E, having a serrated, corrugated, or toothed surface *e*, into which a bail A″, pivoted at *a* to the stationary jaw A, is adapted to be locked in various positions, according to the spread of the jaws desired.

The plate E may be adjusted relative to the movable jaw B by means of any suitable device, and for this purpose I have shown in Fig. 1 a screw F, the shank of which is suitably journaled in an ear or projection B′ on the lower end of the movable jaw B and having a serrated thumb-piece *f*, by means of which it can be easily manipulated. The screw F is made to work in a screw-threaded perforation in the lower end of the serrated plate E, as shown in dotted lines in Fig. 1. It will thus be seen that the plate E can be adjusted with the greatest nicety relative to the movable jaw B, simply by turning the screw F to the right or left, as circumstances may require, thus enabling the bail A″ to hold the jaws in an expanded position corresponding to the size, shape, or nature of the object that is to be grasped between said jaws.

In using the improved wrench the operator first adjusts the movable jaw relative to the stationary jaw, according to the size of the object to be grasped, and this is done simply by compressing the movable jaw and placing the outer end of the bail A″ in the desired notch *e* on the plate E, and when the operator lets go his hold on the jaws the bail A″ will be held in a locked position to the plate E by the influence of the spring D. If the operator finds that the spread of the jaws is too great or too small for properly holding the object, this can be remedied simply by turning the screw F a little to the right or left, as hereinabove set forth.

This improved wrench is very simple in construction, durable, composed of a very few parts, can be easily adjusted for grasping objects varying in shapes and sizes, and will produce a very strong and powerful grip on the object that is to be held or turned. The serrated surface *e* may be made integral with the jaw B, but by having it adjustable thereon, as shown, a more perfect adjustment of the spread of the jaws is obtained.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

1. In a wrench, the combination of a pair of expansive jaws pivoted together and having one of said jaws extended beyond the pivot as a handle with a spring for expanding said jaws, and a ball pivoted to one of the jaws and adapted to lock into serrations or corrugations on the other jaw, substantially as and for the purpose set forth.

2. In a wrench, a pair of expansive jaws pivoted together, in combination with a longi-

tudinally-adjustable serrated plate on one of said jaws and a pivoted locking-bail pivoted on the other jaw and adapted to lock in said serrated plate, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 29th day of September, A. D. 1891.

LEANDER M. COBB.

Witnesses:
ALBAN ANDRÉN,
ALICE A. PERKINS.