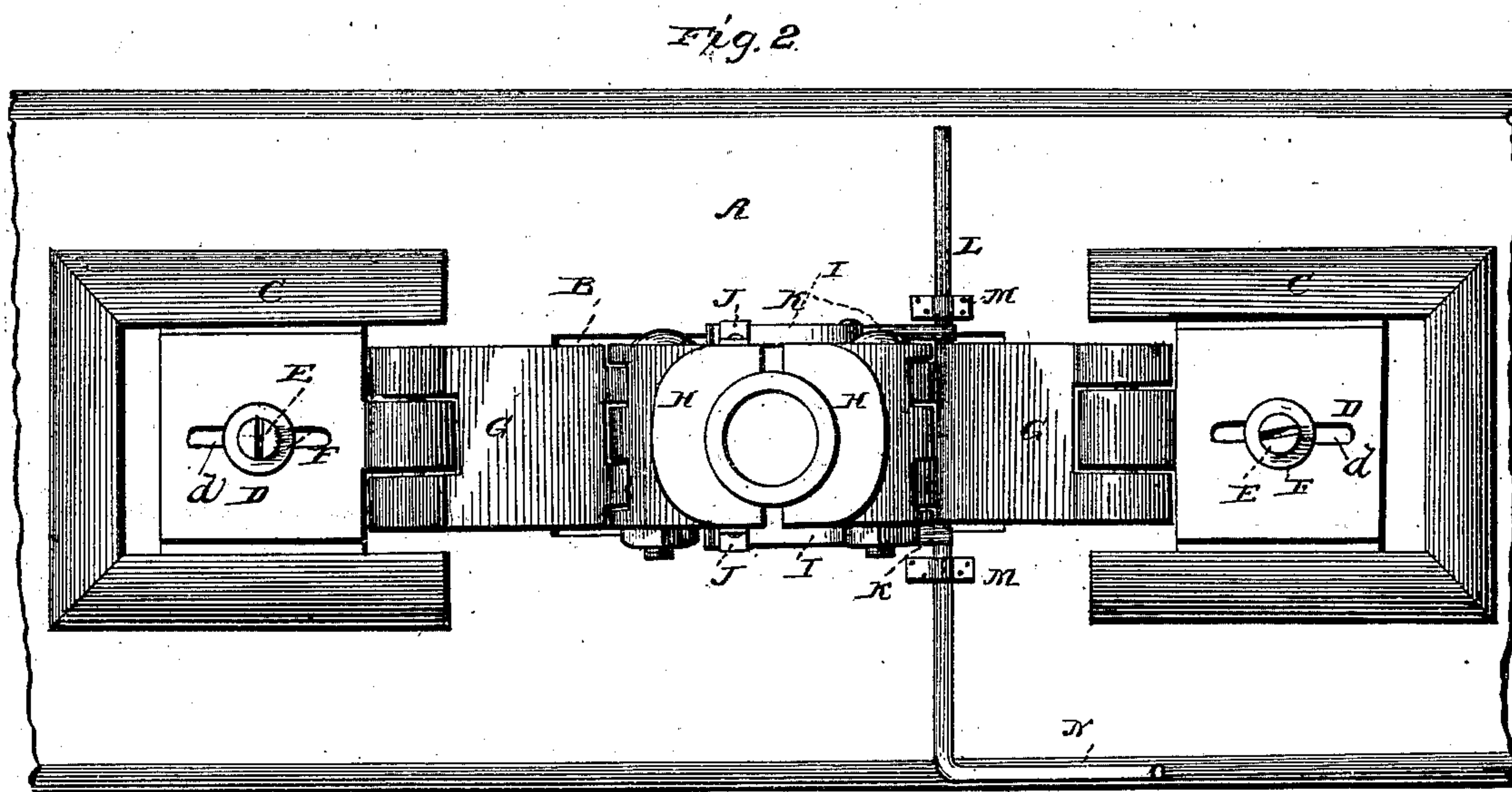
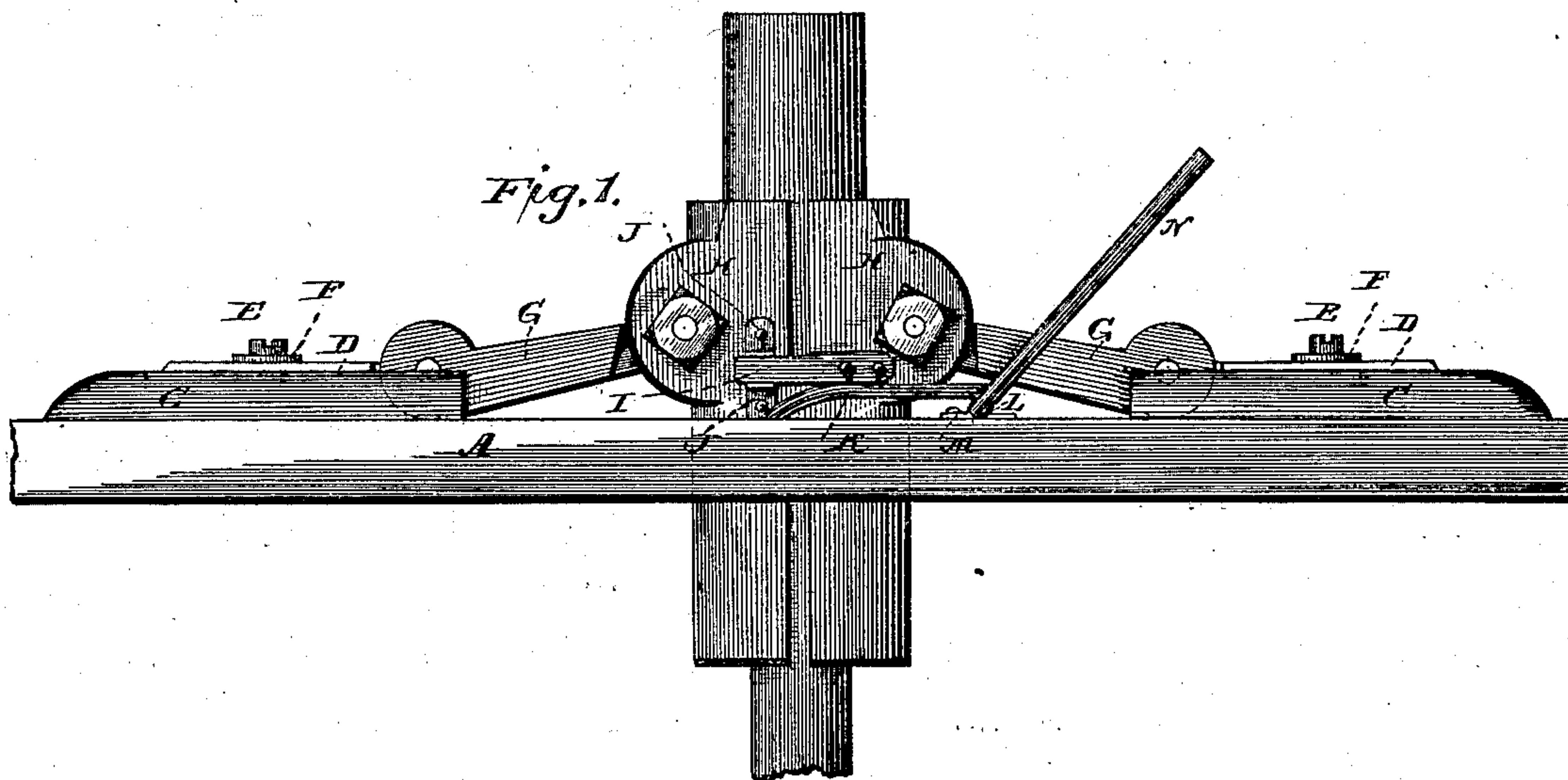


(No Model.)

C. C. UTTER.
TUBE CLAMP FOR OIL WELLS.

No. 273,195.

Patented Feb. 27, 1883.



WITNESSES:

Wm. L. Dieterich.
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UNITED STATES PATENT OFFICE.

CHARLES C. UTTER, OF SAGINAW, MICHIGAN.

TUBE-CLAMP FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 273,195, dated February 27, 1883.

Application filed November 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. UTTER, of Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Tube-Clamps for Oil-
5 Wells; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had
10 to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved tube-clamp, and Fig. 2 is a top view of the
15 same.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has relation to that class of tube-clamps used in the boring of salt or oil
20 wells or other Artesian wells, which consist of two concave jaws clamping the tube, hinged to two pivoted arms, and raised and lowered by means of a curved arm fastened upon a rock-shaft; and it consists in the improved
25 construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a plate, preferably made of metal,
30 rectangular or oblong in shape, and having a central aperture, B.

C C are two guides—one on each side of the opening B—in which slide two slotted plates,
D D.

Two set-screws, E E, provided with washers F, pass through the slots *d* in the plates D, and serve to hold the plates fast at any desired distance from each other. Hinged to
35 the inner ends of these plates are two short arms, G G, which again are hinged at their other ends to two jaws, H H, having concave
40 faces, so as to adapt them to clamp a tube between them. The faces of these jaws may be either smooth or notched to enable them to
45 hold the tubing better.

From the sides of one of the jaws extend two arms, I I, rigidly fastened to the jaw, which slide between two pairs of lips or projections, J J, upon the sides of the other jaw.
50 Bearing against the under sides of these arms I are two curved arms, K K, which are fastened to and extend from a rock-shaft, L, turning in bearing M upon the plate, and provided with a lever or handle, N.

When it is desired to lower tubing into a
55 well, the plate A is placed over the opening of the well and the tube is admitted between the jaws H, which are opened by pressing the lever-arm N down. The tube will close the jaws
60 upon itself by the friction upon their faces, and may thus be lowered slowly by opening the jaws wide enough to admit of the tube sliding down, when it may be stopped any moment by relieving the pressure upon the lever-arm N. In a like manner tubing or a bore-
65 shaft may be held from falling down while being drawn out of a well, as the jaws will close upon the tube the moment it bears down upon their faces, while they will admit of its being drawn upward. It may likewise be used
70 in raising tubing out of the well by applying the jaws around the tube, while power is applied to the plate A, drawing it upward, when the jaws will grasp the tube harder in proportion to the downward strain upon them, while
75 a similar clamp is used below it to hold the tube, while the upper one is lowered to get a fresh hold upon the pipe.

The jaws may be adjusted for clamping any size of tube by moving the plates D in their
80 guides and fastening them by the set-screws.

I am aware that tube-clamps of this class have been constructed with concave clamping-jaws hinged to pivoted arms, and having means for opening and closing the jaws, and
85 I do not claim that, broadly; but

What I do claim, and desire to secure by Letters Patent, is—

1. In a tube-clamp of the described class, the combination of the concave clamping-jaws
90 H H, arms G, plates D, having longitudinal slots *d*, set-screws E, and base-plate A, having ways C C, as and for the purpose shown and set forth.

2. In a tube-clamp of the described class,
95 the combination of the concave clamping-jaws H H, arms I I, fastened to opposite sides of one of said jaws and sliding between lips J J on the opposite jaw, lever K L N, arms G, adjustable plates D, and base-plate A, having
100 central aperture, B, and ways C, as and for the purpose shown and set forth.

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

Witnesses: CHARLES C. UTTER.
FLORA WOODRUFF,
GILBERT M. STARK.