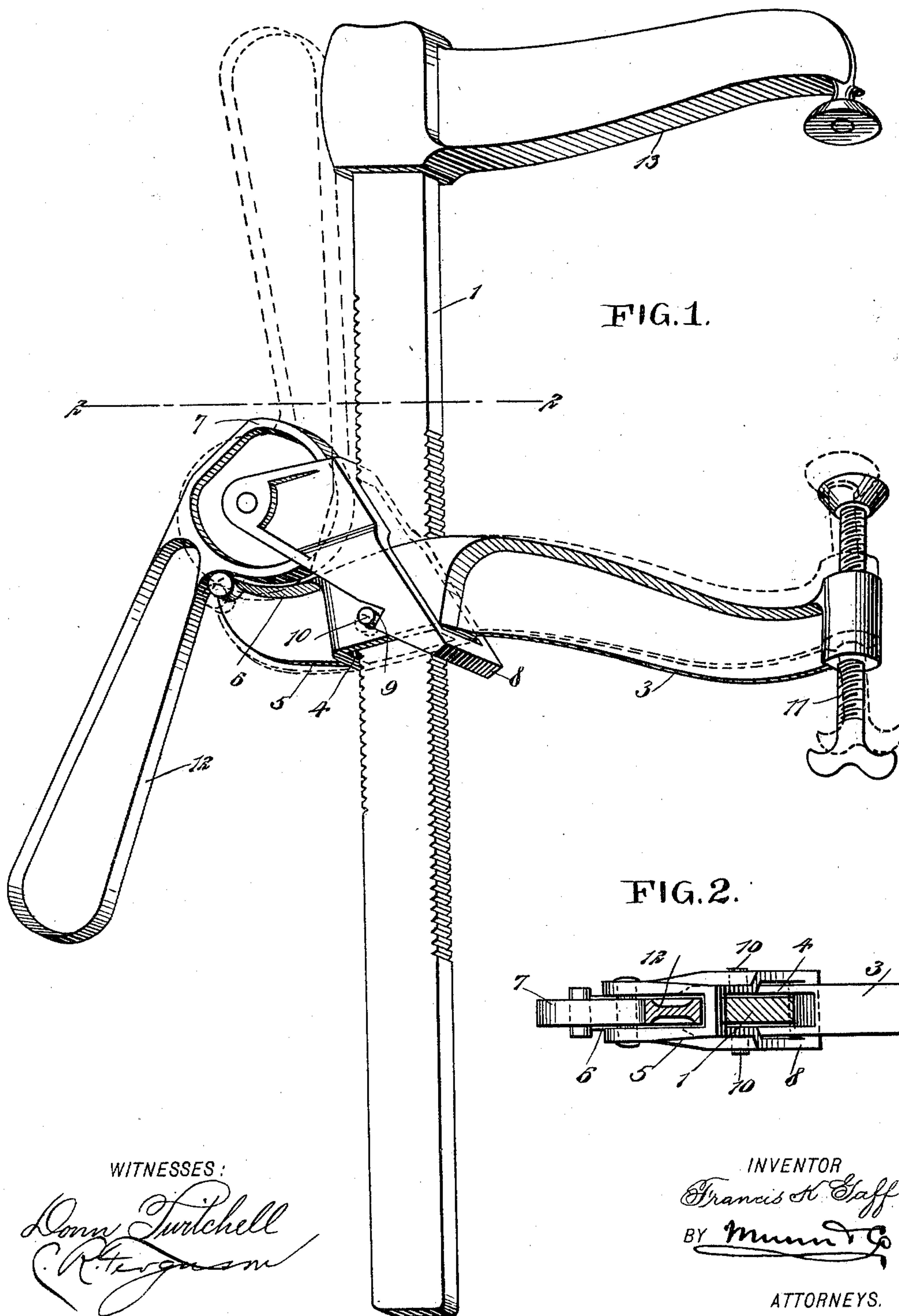


No. 626,604.

Patented June 6, 1899.

F. K. GAFF.
MECHANICAL DEVICE.
(Application filed Oct. 17, 1898.)

(No Model.)



WITNESSES:

Donn Twitchell
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UNITED STATES PATENT OFFICE.

FRANCIS KIMMEL GAFF, OF HAMILTON, OHIO.

MECHANICAL DEVICE.

SPECIFICATION forming part of Letters Patent No. 626,604, dated June 6, 1899.

Application filed October 17, 1898. Serial No. 693,785. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS KIMMEL GAFF, of Hamilton, in the county of Butler and State of Ohio, have invented a new and Improved Mechanical Device, of which the following is a full, clear, and exact description.

This invention relates to improvements in mechanical devices having jaws; and the object is to provide an arm or jaw of simple and comparatively inexpensive construction that may be quickly applied for the holding of work.

I will describe a device applying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a perspective view of a device applying my invention, and Fig. 2 is a section on the line 2 2 of Fig. 1.

Referring to the drawings, 1 designates the bar carrying the combination or invention, the bar being shown as rectangular in shape of cross-section and having a series of teeth on its edges; but obviously it may be of other shape, such as round. Mounted upon the bar is a jaw 3, having an opening 4, through which the bar 1 passes freely, and extending from the rear end of the jaw is a lug 5 so curved, as at 6, as to receive an eccentric-lever head 7, which is pivoted in the yoke 8. The yoke 8 engages loosely around the bar 1 and the movable jaw 3, and on its opposite sides it has shoulders 9, designed to engage the lugs 10 upon the jaw 3.

In operation the eccentric-lever 7 is turned with the smallest radius in contact with the lug 5. The combination is free to move upon the bar 1 (the lugs 10 and the shoulders 9 preventing the yoke and jaw from binding)

until the jaw 3 is brought in close contact with any object upon which its force is to be exerted. The eccentric-lever 7 is to be rotated in the direction indicated by the dotted lines. This movement causes the yoke to closely grip the bar, at the same time rocking the jaw 3 in the yoke upon its lower cross-tie 8, causing pressure to be exerted by the jaw 3.

I have shown a resistance device in the form of an arm or jaw 13, extended rigidly from the bar; but it is to be understood that this special form of resistance is not a necessary feature of my invention, as other forms may be employed.

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

1. A mechanical device, comprising a bar, a jaw movable on the bar, a yoke engaging around the movable jaw and the bar, and a clamping-head eccentrically mounted in said yoke and engaging with a projection upon the movable jaw, substantially as specified.

2. A mechanical device, comprising a bar, a jaw movable on the bar, a yoke engaging around said bar and movable jaw and having shoulders, lugs extended from the movable jaw for engagement with said shoulders, a clamping-head eccentrically mounted in the yoke, and a projection from the movable jaw with which said clamping-head engages, substantially as specified.

3. The combination with a bar, of a jaw mounted to slide and to rock thereon, a yoke engaging around the bar and jaw, and an eccentric pivoted to the yoke and engaging with a projection of the jaw, substantially as specified.

FRANCIS KIMMEL GAFF.

Witnesses:

ISRAEL WILLIAMS,
W. C. MCKEMY.