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R. FJELLMAN.

PIPE WRENCH.

(Application filed June 3, 1899.)

(No Model.)

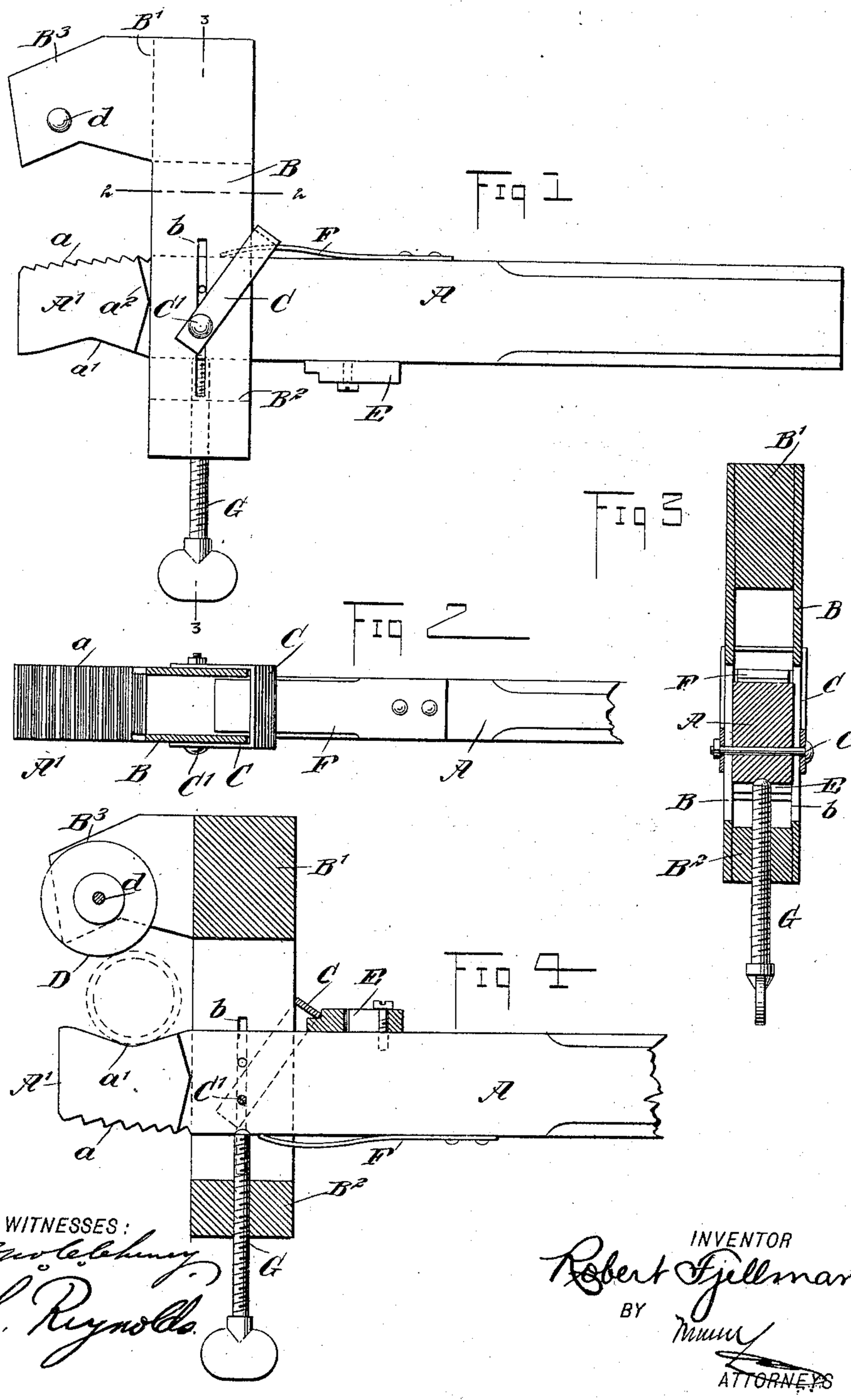

FIG 1

FIG 2

FIG 3

FIG 4

WITNESSES:

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ROBERT FJELLMAN, OF WILMOT, SOUTH DAKOTA, ASSIGNOR OF ONE-HALF TO ANDREW PARKER, OF BROWN VALLEY, MINNESOTA.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 639,162, dated December 12, 1899.

Application filed June 3, 1899. Serial No. 719,272. (No model.)

To all whom it may concern:

Be it known that I, ROBERT FJELLMAN, of Wilmot, in the county of Roberts and State of South Dakota, have invented a new and Improved Pipe-Wrench, of which the following is a full, clear, and exact description.

My invention relates to an improvement in pipe-wrenches, and comprises the novel features hereinafter described and claimed.

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 all the figures.

Figure 1 is a plan view of my device. Fig. 2 is a section taken upon the line 2 2 of Fig. 1. Fig. 3 is a section taken upon the line 3 3 of Fig. 1; and Fig. 4 is a view similar to Fig. 1, showing the handle-bar reversed and the device in use as a pipe-cutter.

The arm or handle-bar A of my device has one end thereof designed to be used as one jaw of the wrench and is provided upon one side surface with teeth *a*, adapted to more effectually grip the pipe, and upon the opposite side surface with a transversely-extending notch or recess *a'*, adapted to engage the pipe when the device is used as a pipe-cutter, as shown in Fig. 4. Embracing this end of the arm or bar A is a yoke B, which is preferably constructed of two plates connected with each other by means of blocks B' and B^2, placed at opposite ends thereof. From one end of the yoke extend arms B^3, which form the other jaws of the wrench. The body of the yoke is provided with longitudinally-extending slots *b*, through which passes a pivot-pin C', by means of which it is supported and guided upon the bar or handle A. Through the block B^2, which is in one end of the yoke, passes a set screw or bolt G, by means of which the device may be adjusted to accommodate pipes of different sizes. Upon the pivot-pin C^2 is pivoted a stirrup C, which passes back of the yoke and over the edge of the arm or handle A. To one side of the bar A is secured a flat plate-spring F, the free end of which passes beneath the stirrup C and holds the same up against the edge of the yoke B.

When it is desired to use the device as a pipe-cutter, the bar A is removed from the yoke and reversed in position, as shown in Fig. 4, and a cutter-wheel D is placed upon the pivot-pin *d*. The bar A is provided with a block E, the end of which is stepped and adapted to engage the stirrup C when the device is to be used as a pipe-cutter.

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

1. A pipe-wrench, comprising a bar or handle one end of which is toothed on one side to form a pipe-engaging surface and the opposite side formed with a transversely-extending concavity, a longitudinally-slotted yoke passing about said bar near the jaw, a removable pin passing through the slots in the yoke and through the bar, a jaw projecting from one end of the yoke parallel with the other jaw, a set-screw passing through the other end of the yoke and engaging the bar or handle, whereby the separation of the jaws may be regulated, and a cutter adapted to be secured to the jaw upon the yoke, substantially as described.

2. A pipe-wrench, comprising a bar or handle one end of which is adapted to form one jaw of the wrench, a longitudinally-slotted yoke passing about said bar near the jaw, a removable pin passing through the slots in the yoke and through the bar, a jaw projecting from one end of the yoke parallel with the other jaw, a stirrup hinging upon the pin which lies in the slot in the yoke and extending back of the yoke and about the bar or handle, a spring secured to and lying along the bar and holding said stirrup outward, and means for adjusting the position of the yoke upon the bar or handle so as to vary the opening of the jaws, substantially as described.

3. A pipe-wrench, comprising a bar or handle, one end of which is adapted to act as a jaw, a yoke embracing the bar near the jaw end and having longitudinally-extending slots, a jaw extending from one end of the yoke and opposed to the jaw upon the bar or handle, and having a recess adapted to receive a cutter-wheel, a pivot passing through said jaw and adapted to receive the cutter-wheel, a pivot-pin passing through the bar or handle and the slots in the yoke, an adjusting-bolt in the end of the yoke opposite that carrying the

jaw and engaging the bar or handle, a stirrup pivoted upon the pivot-pin and extending about the bar or handle just back of the yoke, and a spring extending along the bar and beneath said stirrup, substantially as described.

4. A pipe-wrench, comprising a bar or handle, one end of which is adapted to act as a jaw and has on one side a transversely-extending notch, a yoke removably pivoted upon said bar and having a jaw thereon opposed to the jaw on the bar or handle, said jaw having a recess, and a pivot-pin intersecting said recess, a cutter-wheel adapted to be placed on said pivot-pin, and a spring throwing said yoke forward to clamp the pipe, substantially as described.

ROBERT FJELLMAN.

Witnesses:
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