

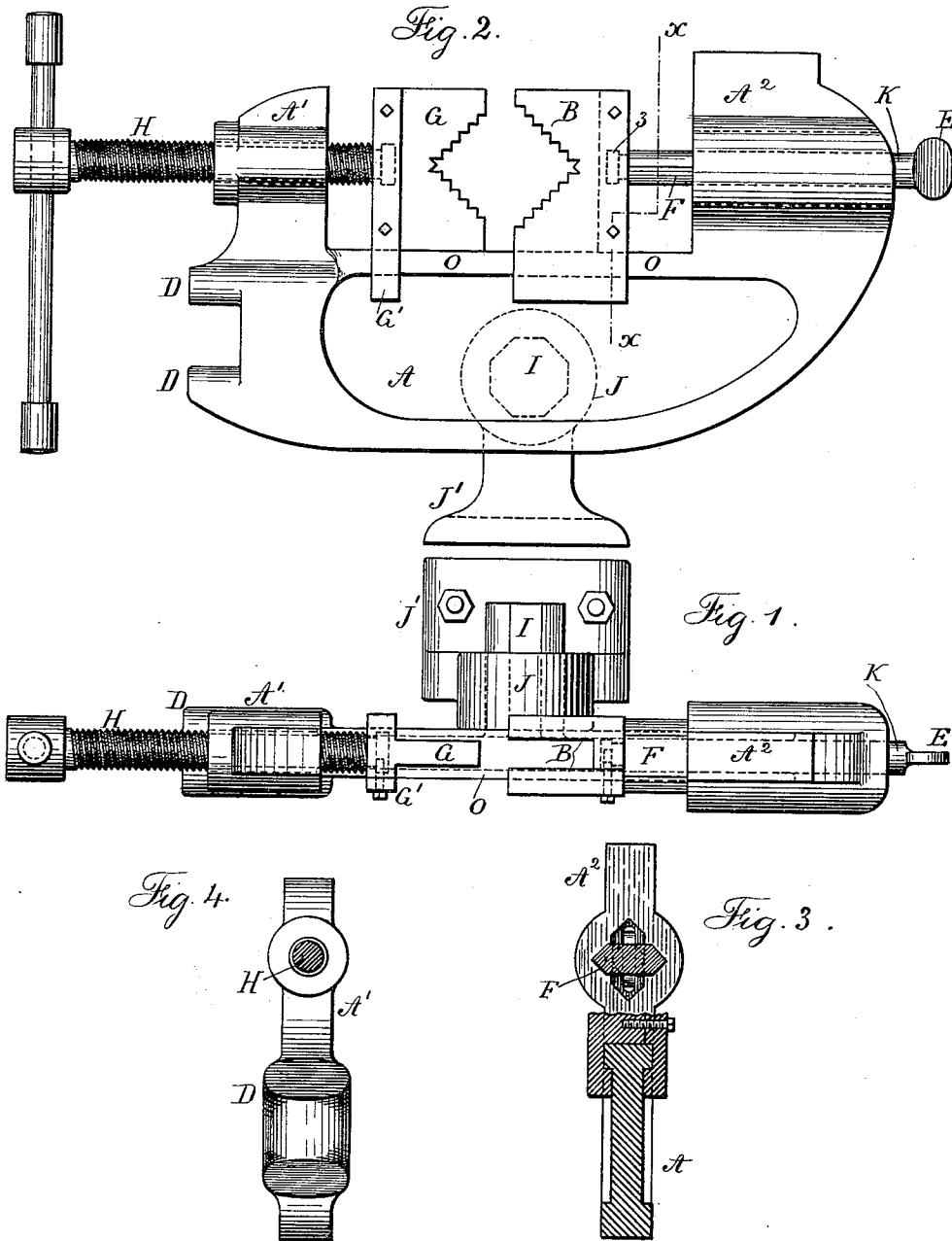
(Model.)

J. H. BAKER & G. F. SHEVLIN.

PIPE VISE.

No. 363,041.

Patented May 17, 1887.



Witnesses:
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Inventors:
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UNITED STATES PATENT OFFICE.

JAMES H. BAKER AND GEORGE F. SHEVLIN, OF SARATOGA SPRINGS,
NEW YORK.

PIPE-VISE.

SPECIFICATION forming part of Letters Patent No. 363,041, dated May 17, 1887.

Application filed November 1, 1886. Serial No. 217,650. (Model.)

To all whom it may concern:

Be it known that we, JAMES H. BAKER and GEORGE F. SHEVLIN, of Saratoga Springs, in the county of Saratoga and State of New York, have invented an Improvement in Pipe-Vises, of which the following is a specification.

The object of this invention is to allow the V-shaped jaws to be opened with facility for the insertion or withdrawal of the pipe without the necessity of rotating the clamping-screw to such an extent as has heretofore been usual. One of the clamping-jaws is acted upon by the clamping-screw, as usual, and the other jaw is provided with a movable block that forms a resistance to the jaw when grasping the pipe, and this movable block can be partially rotated and drawn back into the head-block of the vise at the time the sliding jaw is opened for inserting or withdrawing the pipe.

In the drawings, Figure 1 is a plan view of the vise. Fig. 2 is an elevation of the same. Fig. 3 is a cross section at the line *x x*, Fig. 1; and Fig. 4 is an end view, partially in section, of the vise.

The body A of the vise is provided with the head-blocks A' A². The clamping-screw H passes through the head-block A', and between the head-blocks A' and A² is the slide O, that supports the jaws B and G, that are V-shaped and formed with teeth upon their inner edges, and the jaw Q passes in between the two parts of the jaw B, as usual. There is a button-head at the inner end of the screw H, and this is received within a corresponding recess at the back of the jaw G, and there is a bar, G', riveted or bolted upon one side of the back part of the jaw G, to confine the button-head upon the screw H within its recess, so that the jaw G will be moved back and forth by revolving the screw H, and the rear part of the jaw G and the bar G' extend below the jaw G and form guides at the sides of the slide O, so as to retain the jaw in position but allow the same to be moved back and forth.

The two parts of the jaw B extend down at the sides of and grasp the slide O, so as to be guided thereby in the backward and forward movement of this jaw B, and said jaw B is

preferably in two parts riveted together, and there is at the back thereof a recess for the reception of the button-head upon the blocking-piece F, and there is a circular stem, K, at the rear of the blocking-piece F with a T-shaped head, E.

The blocking-piece F is much wider in one direction than in the other, and in the head-block A² a hole is cast, through which passes the stem K, and the hole is also sufficiently large for the passage of the head E and to receive the blocking-piece F when in a vertical position, so that the jaw B can be drawn back by the stem K and head E until the jaw B rests against the inner face of the head-block A². This allows the necessary opening between the jaws G and B for the insertion of a pipe or rod. The stem K and head E are now pushed upon and the jaw B slid up toward the pipe, and by the partial rotation of the head E and stem K the block F is turned into a horizontal position and forms a resistance or abutment to hold the jaw B firmly, while the pipe is clamped by a few turns of the screw H.

By this improvement considerable time is saved and the wear upon the screw is lessened and the pipe can be passed in between the jaws B and G with facility or removed therefrom.

At the outer end of the body A is an opening with rigid rounding jaws D D, into which a pipe or rod may be passed for bending or straightening the same, and the entire vise may be supported in any convenient manner. We have shown a prismatic projection, I, at one side of the body A and a tubular polygonal hub, J, for receiving the projection I, and there is a flange, J', by means of which the hub J can be fastened to a studding or to a bench or other support.

We claim as our invention—

1. The combination, with the body A, head-blocks A' A², and the jaws G and B, and screw H, of the blocking piece or abutment F, having a button-head within a recess at the back of the jaw B, and the stem K and head E, for moving the parts endwise and for turning the blocking piece or abutment, the head-block A² being perforated for the passage of the stem K and head E and recessed for the reception

of the block F when in one position, substantially as set forth.

2. The combination, in a pipe-vise, of the V-shaped grasping-jaws, the body having
5 slides upon which the grasping-jaws move, the head-blocks above the body of the vise, a clamping-screw passing through one of the head-blocks and acting upon one of the jaws,
10 a blocking piece or abutment between one of the head-blocks and one of the jaws, and a stem

by which the blocking piece or abutment is moved, substantially as set forth.

Signed by us this 15th day of October, A.D. 1886.

JAMES H. BAKER.
GEORGE F. SHEVLIN.

Witnesses:

J. W. CRANE,
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