(No Model.)

T. E. KING.

VISE ATTACHMENT.

No. 303,647. Patented Aug. 19, 1884.

Fig. 1

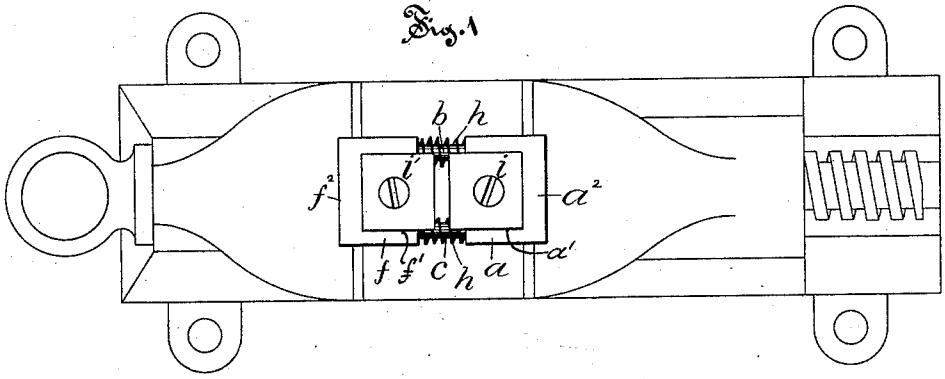


Fig. 2

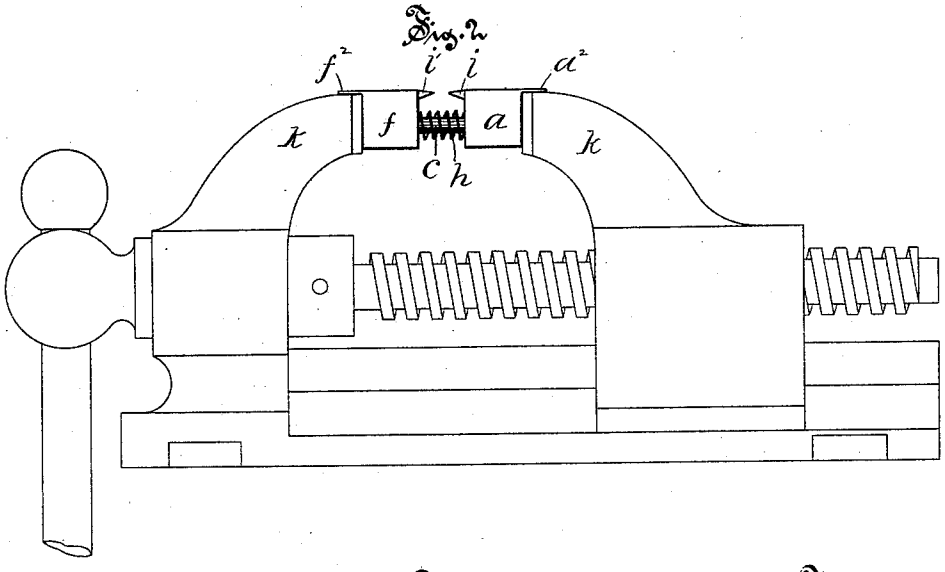


Fig. 5

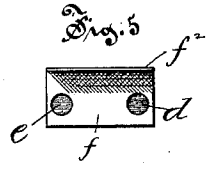


Fig. 4

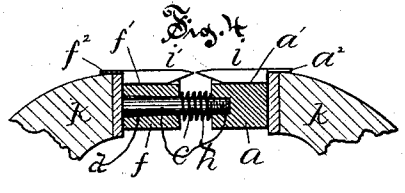
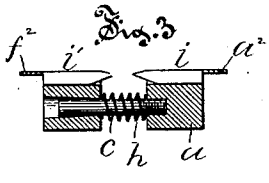


Fig. 3



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UNITED STATES PATENT OFFICE.

THEODORE E. KING, OF WESTPORT, CONNECTICUT.

VISE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 303,647, dated August 19, 1884.

Application filed April 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, THEODORE E. KING, of Westport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Vise Attachments; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 is a top view of my device as in use in a vise. Fig. 2 is a side view of the same. Fig. 3 is a view in vertical longitudinal section of the device removed from the vise. Fig. 4 is a detail view of the device as closed. Fig. 5 is a back view of one of the parts of my device.

My invention relates to the class of devices more especially adapted for use in connection with other mechanisms, which serve as a medium for applying the power required to operate my device.

My invention consists in the combination of cutter-bearing blocks, mutually supported upon guides or pins common to both blocks, bearing cutter-blades, and provided with springs which operate to keep the blocks apart at the outer limit of their play, and with means for temporarily supporting the same in a vise, as more particularly hereinafter described.

In the accompanying drawings, the letter *a* denotes a block, preferably of metal, as iron, rectangular in outline, provided on one side, which I will term the "face," with a transverse socket, *a'*, and with the backward-extending flange a^2, in continuation of the face.

Upon the inner side of the block, and projecting in a plane parallel to the face, are fixed the guide-rods *b c*, which extend into sockets *d e* in the body of a similar block, *f*, which block has a socket, *f'*, in its upper surface or face, and backward-extending flange f^2. Upon the guide-rods, between the blocks and thrusting against their inner sides, are arranged the spiral springs *h*, which tend to keep the blocks apart. In the sockets in the face of these blocks are secured the removable cutter-blades *i i'*, which are preferably of steel, and have cutting-edges that project inward beyond the inner face of the blocks.

This device is particularly adapted for use in a vise, between the jaws of which it is placed, as illustrated in the drawings, the projecting flanges resting upon the upper surface of the vise-jaws, and the rear of the blocks pressing against the grasping-faces of the jaws *k* of the vise. By closing the jaws by the ordinary means common to vises, the cutting-blades are brought toward each other in such manner as to cut in two rods or bars of any material which may have been placed between the cutters. These blocks are so connected by means of the guide-rods that the cutting-edges of the blades shall lie in the same plane, so that as the blades are brought together in cutting they will cut properly.

In the form of my device as herein described and illustrated, the guide-rods *b c* are so adjusted as to length that their ends, which move in the sockets *d e*, shall strike the face of the vise-jaw in time to prevent the edges of the cutter-blades from coming in contact when the blades are forced toward each other in cutting.

It is not essential that this particular form of stop device should be used, as the same result may be gained by other devices—as by lugs projecting from the adjacent inner sides of the blocks, and so arranged as to strike the opposite surface in time to prevent contact of the cutting-edges of the blades.

I claim as my invention—

1. In combination, block *a*, having a supporting-flange, a^2, and removable cutter-blade *i*, block *f*, having a supporting-flange, f^2, and a removable blade, *i'*, guide-rods common to both blocks, springs whereby the blocks are held apart, and a stop-device, all substantially as described.

2. In combination with a vise, cutter-bear-

ing blocks with supporting-flanges and guide-rods, and a spring whereby the blocks are held apart, all substantially as described.

3. As an improved article of manufacture, a cutting implement consisting of a pair of blocks with supporting guide-rods, each block having a rearward-extending shoulder or flange and bearing a removable cutter-blade, a spring whereby the blocks are held apart, and a stop device that limits the forward movement of the blocks, all substantially as described.

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