

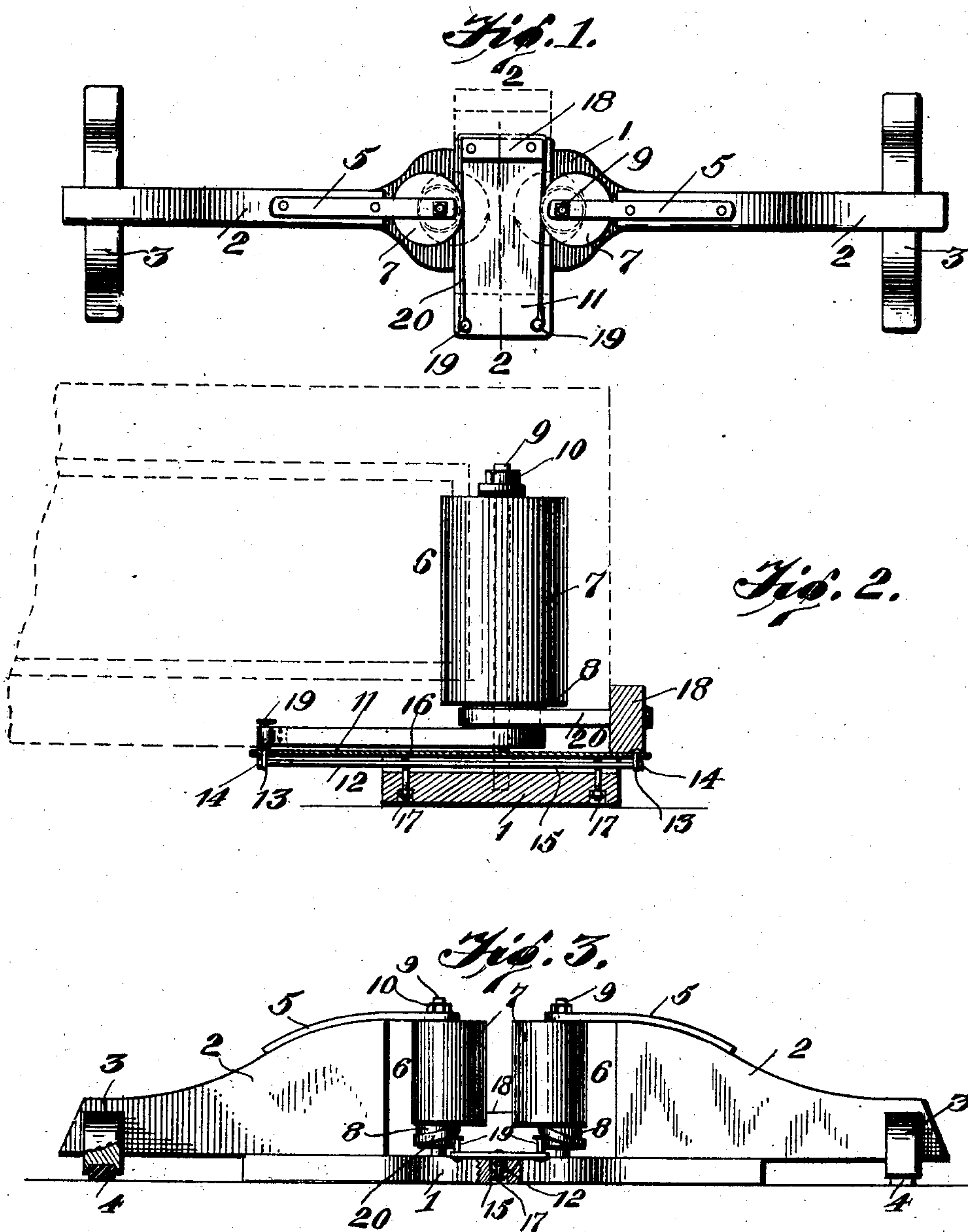
W. T. KENNEDY & G. C. PETTIT.

ADJUSTABLE DOOR VISE.

APPLICATION FILED MAY 17, 1910.

973,942.

Patented Oct. 25, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM T. KENNEDY AND GEORGE C. PETTIT, OF LONEROCK, IOWA.

## ADJUSTABLE DOOR-VISE.

973,942.

Specification of Letters Patent.

Patented Oct. 25, 1910.

Application filed May 17, 1910. Serial No. 561,818.

*To all whom it may concern:*

Be it known that we, WILLIAM T. KENNEDY and GEORGE C. PETTIT, citizens of the United States of America, residing at Lonerock, in the county of Kossuth and State of Iowa, have invented certain new and useful Improvements in Adjustable Door-Vises, of which the following is a specification, reference being had therein to the accompanying drawing.

When hanging or fitting doors it has often been found necessary to plane or shave one or both edges thereof in order to have the same fit the frame or swing freely thereon after the same is hung. And it has also been found very difficult to hold the door in its desired position while the same is being trimmed or the hinges or lock is being placed thereon.

Therefore the object of this invention is the production of a door clamp or vise which will firmly hold a door in the desired position while one edge thereof is being planed or worked upon.

Another object of this invention is the production of a portable door clamp or vise which is simple in construction, efficient in operation and which can be readily carried from place to place.

With these and other objects in view, this invention relates to certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a top plan view of the vise. Fig. 2 is an enlarged section taken on line 2—2 of Fig. 1. Fig. 3 is a front view of the clamp or vise.

Referring to the drawings by numerals, 1 designates the base which carries a pair of vertically extending frames 2. The frames 2 are supported at their outer ends by means of feet 3 which are provided upon their under surfaces with cushions 4. The frames 2 are spaced apart at their inner ends and a strap 5 is carried by the upper end of each frame 2 and overhangs the inner end thereof as clearly shown in Fig. 3. A roller 6 is interposed between each strap 5 and the base 1 and comprises an eccentric portion 7, which is covered with leather or any other suitable material, and a drum portion 8. A bolt 9 passes through the roller 6 having its lower end embedded in the base 1, and its upper end positioned in an aperture formed in the strap 5, near the outer end thereof. A

nut 10 is threaded upon the upper end of the bolt 9, thereby preventing the same from being accidentally displaced from the strap 5.

A work supporting plate 11 is carried by the base 1 and has a longitudinally extending rod 12 secured to the under surface thereof. Said rod 12 is secured to the plate 11 by means of eyes 13 and said rod 12 is provided with enlarged heads 14 to prevent the longitudinal movement thereof relative to the eyes 13. The base 1 is provided with a transversely extending notch 15 in which the rod 12 is adapted to work. Eyes 16 engage the rod 12 as shown in Fig. 2, and nuts 17 are threaded upon the lower ends thereof for holding the same in engagement with said base 1; the nuts 17 being countersunk so as to keep the same out of engagement with the floor.

An abutment block 18 is carried by the rear end of the plate 11, and is adapted to be engaged by the work carried by the vise. Pins 19 are carried by the front end of the plate 11, to which pins are attached the respective ends of the flexible member 20. The flexible member 20 passes around the drum portion 8 of each roller 6 and in back of the abutment block 18, to which block it is fixedly secured.

It will be obvious that when the work, a door for example, as shown in dotted lines in Fig. 2, is placed upon the plate 11, with one end against the abutment block 18, and the work pushed forward, thereby pushing the plate to the position shown in dotted lines in Fig. 1, the flexible member will be drawn around the drum-portions 8 of the rollers 6, thereby turning the eccentric portion to the position shown in dotted lines in Fig. 1, and firmly clamping the work between the eccentric rollers. It will therefore be obvious that the harder the work is pushed against the block 8, the tighter the work will be gripped. It will be further obvious that by having the flexible member 20 secured to and passing around the back of the abutment block 18, the block will be greatly reinforced thereby and the pull will be direct upon the flexible member.

What we claim as our invention is:

1. A clamp of the class described comprising a base, a bodily movable member, abutment means carried thereby, eccentric rollers carried by said base, flexible means secured to said bodily movable member and passing around a portion of said rollers for



rotating the same when said bodily movable member is actuated.

2. A clamp of the class described comprising a body, a plate slidably mounted  
5 thereon, an abutment block carried by one end thereof, rollers carried by said body, said rollers provided with an eccentric upper portion and a reduced lower drum portion, a flexible member wound around said  
10 drum portions and secured to the back of said abutment block, pins carried by the front of said plate and the end of said flexible member secured thereto.

3. A clamp comprising a body, a plate,  
15 said body provided with a transversely extending notch, a rod secured to the under surface of said plate, eyes carried by said body and engaging said rod for holding the plate against displacement from said body,  
20 work gripping rollers carried by said body,

and means cooperating with said rollers and plate whereby when said plate is shifted upon said body, said rollers will be actuated.

4. A clamp comprising a base, a work- 25 supporting plate carried thereby, an abutment block carried by said plate, eccentric rollers carried by said base, flexible means passing around the lower ends of said rollers and in back of said abutment block and hav- 30 ing its front ends attached to the front end of said plate for reinforcing said abutment member.

In testimony whereof we hereunto affix our signatures in presence of two witnesses. 35

WILLIAM T. KENNEDY.

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Witnesses:

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