Nov. 17, 1942. A. J. WACLAWEK 2,302,360

RIVET SETTING DEVICE

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Fig. 1.

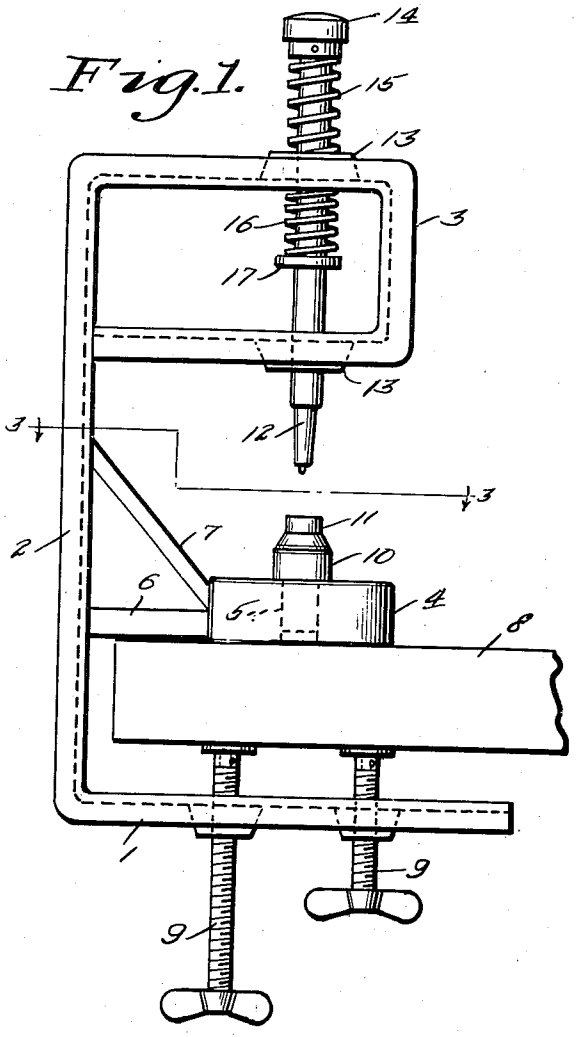


Fig. 2.

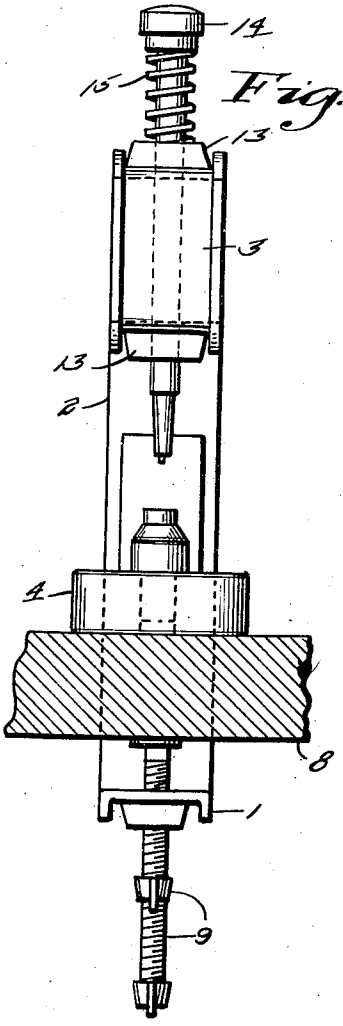
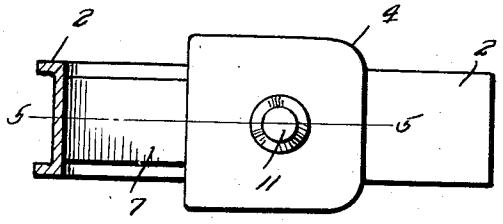


Fig. 3.



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Fig. 4.

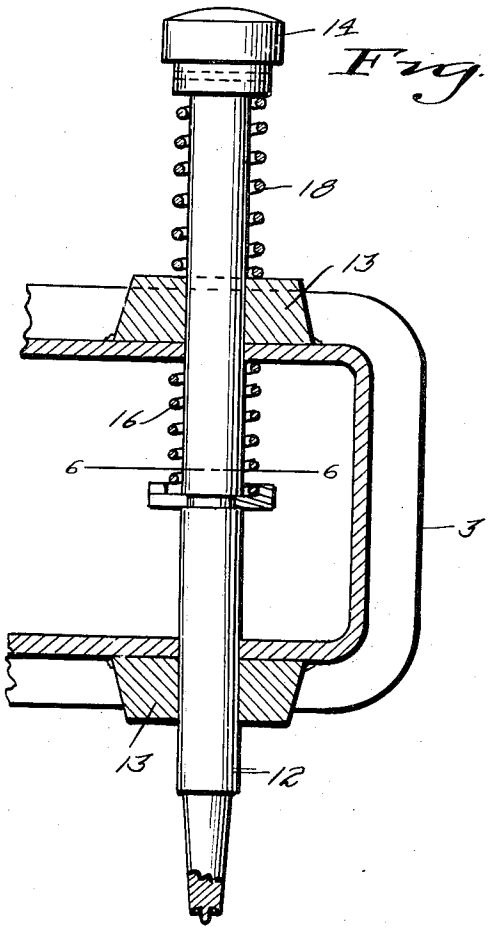


Fig. 5.

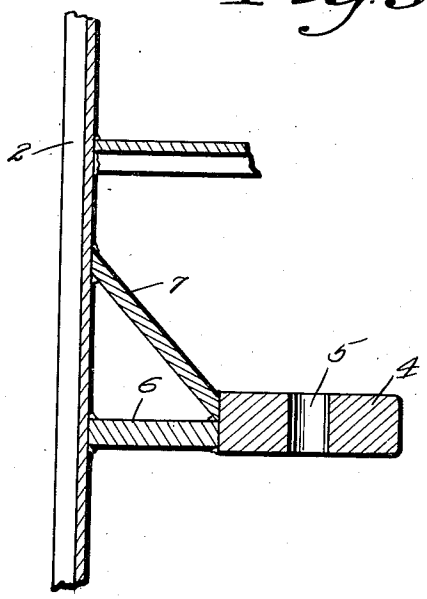


Fig. 7.

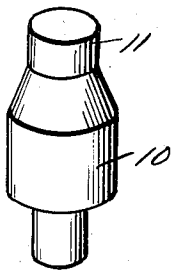
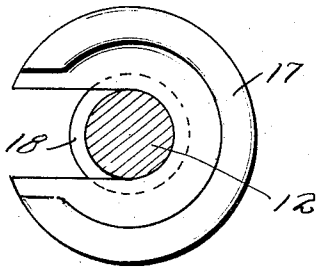


Fig. 6.



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UNITED STATES PATENT OFFICE

2,302,360

RIVET SETTING DEVICE

Aloysius J. Waclawek, Whiting, Ind.

Application October 27, 1941, Serial No. 416,743

1 Claim. (Cl. 218—1)

My invention relates to improvements in rivet setting devices for use especially in setting rivets in the linings of automobile brake shoes.

The invention is designed with the principal object in view of providing a simply constructed, light weight, readily portable device for clamping to a work bench and easy operation to accurately and quickly rivet brake shoe linings to brake shoes without mutilating either the lining or shoe.

Other and subordinate objects are also comprehended by my invention, all of which, together with the precise nature of my improvements, will be readily understood when the succeeding description and claim are read with reference to the drawings accompanying and forming part of this specification.

In said drawings:

Figure 1 is a view in side elevation of the preferred embodiment of my invention,

Figure 2 is a view in rear elevation, with parts showing in section,

Figure 3 is a view in horizontal section taken on the line 3—3 of Figure 1,

Figure 4 is a fragmentary view in section of the loop, rivet setting plunger, and parts associated therewith drawn to an enlarged scale,

Figure 5 is a similar view of the anvil support and frame,

Figure 6 is a view in horizontal section taken on the line 6—6 of Figure 4, and

Figure 7 is a view in perspective of the anvil.

Reference being had to the drawings by numerals, my improved rivet setting device comprises, as its basic element, a frame formed of a single piece of bar-like metal of channel form bent upon itself to provide a base stretch 1 designed to underlie a work bench, a stretch 2 extending at a right angle to the stretch 1 and adapted to extend upwardly from the base stretch 1 alongside the bench, said stretch 2 being bent at its upper end to form a rectangular loop 3 disposed in a common plane with the base stretch 1 and vertical stretch 2 and at the same side of the stretch 2 as the stretch 1 to overlie stud bench.

Intermediate the base stretch 1 and the loop 3 is a plate-like anvil support 4 adapted to be horizontally disposed on top of the bench and provided with a central bore 5 for a purpose presently to be seen, said support being suspended from the stretch 2 by an arm 6 extending laterally from said stretch 2 and a diagonal brace arm 7 also extending from said stretch 2, both in a common plane with the base stretch 1 and the loop 3. The support 4 is designed to be clamped on top of a work bench 8. A pair of clamping screws 9 extend through the base stretch 1 for engagement with the bottom of the bench 8.

An upstanding anvil 10 with a reduced flat top upper end 11 is detachably mounted in the bore 5 of the support 4 by means of a reduced shank fitting in said bore 5.

A rivet setting plunger 12 is slidably mounted in bosses 13 provided on the loop 3, said plunger being disposed in axial alignment with the anvil 10 and provided above the loop 3 with an enlarged head 14 for striking by a hammer or the like.

A pair of upper and lower coil springs 16, 16 are sleeved onto the plunger 12 above and below an upper stretch of the loop 3 to cushion the plunger against vertical movement in opposite directions, respectively, one spring 16 being interposed between the head 14 and said stretch, and the other between said stretch and bifurcated collar 17 fitting crosswise on the plunger 12 in a groove 18 therein.

The use of the described invention will be readily understood. The described frame is clamped to the bench by means of clamping screws 9 to secure the support 4 to the top of the bench 8 and the frame in upright position. The plunger 12 is driven downwardly by a hammer or the like to set the rivets, not shown, in the lining of brake shoes imposed on the flat upper end 11 of the anvil 10. The springs 15, 16 balance the plunger 12 above the anvil 10 for downward driving against the rivets to set the same and act to cushion said plunger.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the subjoined claim.

What I claim is:

A rivet setting device comprising a frame for attachment to a bench comprising a stretch adapted to be disposed in upstanding position alongside said bench, and a loop-shaped lateral arm at the upper end of said stretch adapted to overlie said bench, an anvil support projecting laterally from said stretch below said arm and adapted to be clamped on top of said bench, an anvil mounted in said support in upstanding position, and a rivet setting plunger endwise slidable in and through said loop-shaped arm in axial alignment with said anvil.

ALOYSIUS J. WACLAWEK.