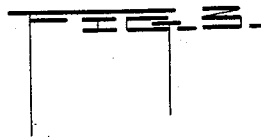
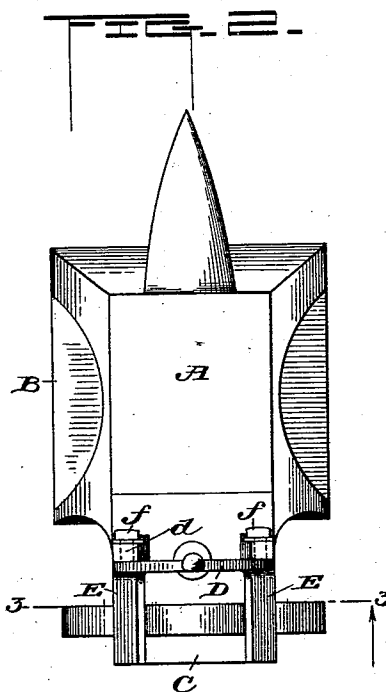
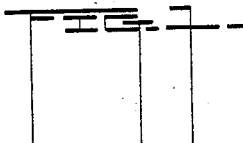
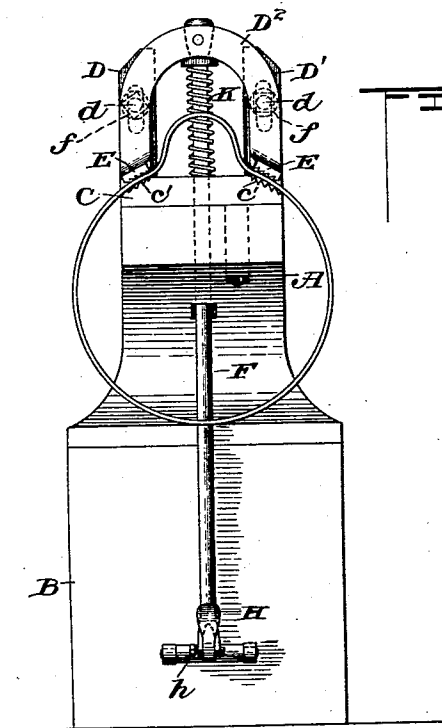


(No Model.)

C. E. VAN COUGHNET.
ATTACHMENT FOR ANVILS.

No. 563,104.

Patented June 30, 1896.



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CHARLES EMPEY VAN COUGHNET, OF FORT BIDWELL, CALIFORNIA.

ATTACHMENT FOR ANVILS.

SPECIFICATION forming part of Letters Patent No. 563,104, dated June 30, 1896.

Application filed April 10, 1896. Serial No. 587,022. (No model.)

To all whom it may concern:

Be it known that I, CHARLES EMPEY VAN COUGHNET, a citizen of the United States, residing at Fort Bidwell, in the county of Modoc and State of California, have invented certain new and useful Improvements in Attachments for Anvils, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in attachments for anvils, the object being to provide an attachment whereby a hub-band can be held in place while being "upset," and by means of which that operation can be readily accomplished by a single workman.

Another object which I have in view is to provide an attachment for the purpose stated which can be quickly and easily applied and secured in position on an ordinary anvil, which will occupy a minimum amount of space thereon, and which will have no parts that when removed will mar or damage the surface of the anvil or prevent its use in the ordinary manner.

With these and other ends in view my invention consists in the peculiar construction and arrangement of parts that will be hereinafter fully pointed out and described.

I have illustrated my invention in the accompanying drawings, in which—

Figure 1 is a side elevation of an anvil having my improved attachment applied thereto. Fig. 2 is a plan view of the same. Fig. 3 is a sectional view on the line *xx* of Fig. 2.

Like letters of reference denote corresponding parts in the several figures of the drawings, referring to which—

A designates an anvil, which, as shown, may be of the ordinary form and construction and is mounted on a suitable base stand or block B.

C designates the base-plate or stationary jaw-like member of my attachment. This plate is adapted to be secured in position on the anvil by means of a downwardly-projecting pin or stud *c*, which fits snugly in the round "hardy" hole. The plate C is provided with two upwardly-extending standards D D', and the sides thereof at one side of these standards are beveled off to provide two

clamping-surfaces *c'*. These beveled surfaces are preferably grooved or corrugated.

D² designates the frame carrying the movable jaws or clamps E of the attachment. This frame is connected to the upper end of an operating rod or link F, which extends through the square hole in the anvil and is held against movement in any but a vertical direction by means of guide pins or studs *d*, which extend through vertical slots formed in the standards D D'. The free ends of these guide pins or studs are threaded and nuts *f* are screwed thereon. To the lower end of the frame-piece D² are secured the movable jaws E, which extend parallel to the beveled clamping-surfaces *c'* on the base-plate C. The under surfaces of these jaws are provided with a series of longitudinally-extending grooves to form a corrugated surface similar to that on the portions *c'* of the base-plate. Preferably the jaws E and the support D² therefor are formed from a single piece, as shown in the drawings.

The lower end of the operating rod or link F is bifurcated and extends on opposite sides of a foot-lever or treadle H, which is fulcrumed on the supporting base or stand B, and such lever and rod are connected by a pin *h*.

The support D² and jaws E are normally held above the base-plate C by means of a coiled spring K, fitted around the rod F between such base-plate and the connecting and said supporting piece D².

The manner of using my improvements is illustrated in the drawings, and may be briefly described as follows: The band which it is desired to upset is first crimped over the horn of the anvil and then placed in the position shown in Fig. 1 of the drawings. By depressing the lever H the band is firmly clamped between the corrugated portions *c'* of the base-plate C and the movable jaws E and will be firmly held in position. The angle of the jaws of the clamp is such that the band is held more firmly in place than would be possible if the jaws E extended parallel to the top surface of the plate C and such plate were not beveled at its side edges.

The entire attachment can be readily de-

tached from the anvil by simply removing the pin *h*, thereby disconnecting the rod *F* and lever *H*, and allowing the plate *C* and parts supported thereby and connected therewith

5 to be raised from the anvil.

I am aware that prior to my invention it has been proposed to provide an anvil with a detachable plate adapted to serve as the stationary jaw of a clamp, and to support above

10 such plate a movable jaw adapted to be moved toward and from the said plate; but all of the earlier constructions with which I am acquainted had incident to them certain objections, which are obviated by that herein

15 described and illustrated.

With some of the earlier constructions it was necessary to have the support for the movable jaw extend over the side of the anvil. This is objectionable because of its hin-

20 dering the use of all parts of the apparatus.

By my construction all of the parts, except the foot-lever, are arranged within the side lines of the anvil, and are so related as to take up but a minimum amount of space.

25 Again, by providing the relatively long oppositely-inclined clamping surfaces on the detachable plate, which surfaces extend to the side lines of the anvil and are separated by a relatively large horizontal surface, I am enabled to obtain a firmer and better grip or hold

30 on a band, and the attachment is adapted for use with bands of different widths to a greater extent than was possible with the earlier constructions; also, by supporting the movable

35 jaw by a support in rear of the clamping-surfaces on the base-plate, no obstruction is presented at that end of the anvil where the workman stands when using this attachment.

Having thus described my invention, what

40 I claim as new, and desire to secure by Letters Patent, is—

1. In an attachment for anvils, the combination with a base-plate, adapted to be secured in place on an anvil and having a clamping

45 face or surface, of an upright rigidly connected to said base-plate at one side of the clamping-face thereof, and a two-part movable jaw having one member connected with the standard to move vertically thereon and

its other member extending parallel to the clamping-surface of the base-plate, a lever, and connections between said lever and the movable jaw for moving the latter vertically on the standard toward and from the base-plate, substantially as set forth.

2. In an attachment for anvils, the combination of a base-plate adapted to be secured in place on an anvil and having the oppositely-inclined clamping-surfaces, *c'*, extending inwardly from the side edges of the plate, and separated by a horizontal surface, an upright or standard rigidly secured to and extending upwardly from the base-plate at a point in rear of the clamping-surfaces, *c'*, thereon, a movable jaw having a portion adjus-

65 tably connected to the said standard and two forwardly-projecting, oppositely-inclined, plate-like parts which aline with the clamping-surfaces on the base-plate, means for normally holding such movable jaw above the base-plate, and a lever connected with such jaw for moving the same toward the base-plate, substantially as set forth.

3. In an attachment for anvils, the combination of a base-plate having a depending pin adapted to fit in the hardy-hole in an anvil, and having two oppositely-inclined corrugated clamping-surfaces, *c'*, formed on its upper surface, vertical standards extending upwardly from the base-plate, a support, *D*², having guide-pins fitted in vertical slots

80 formed in said standards, two clamping-jaws carried by said support and extending parallel to the surfaces *c'* on the base-plate, a lever fulcrumed on the anvil-support, a rod adapted to extend through the square hole in the anvil and have one end connected to the said lever, the other end being connected to the support of the movable jaws, and a coiled spring fitted around said rod, between the base-plate and the support for the movable

85 jaws, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES EMPEY VAN COUGHNET.

Witnesses:

THOMAS RINN,
II. YOPP.