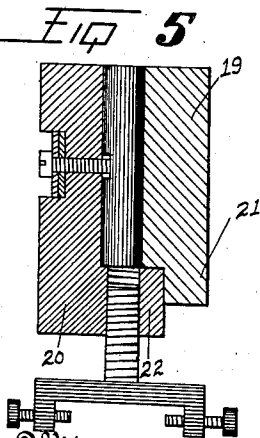
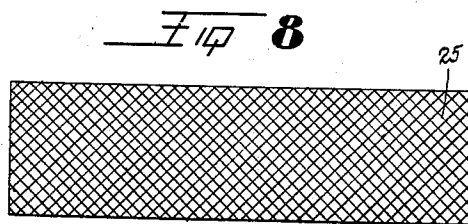
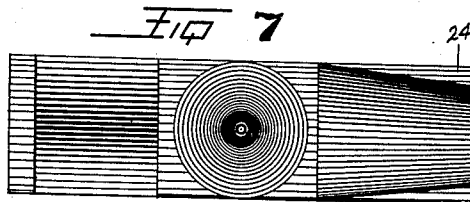
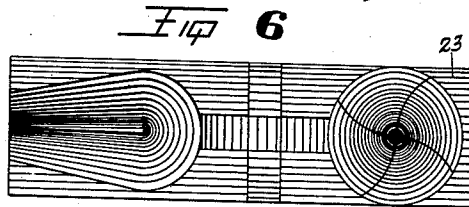
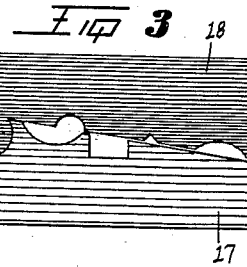
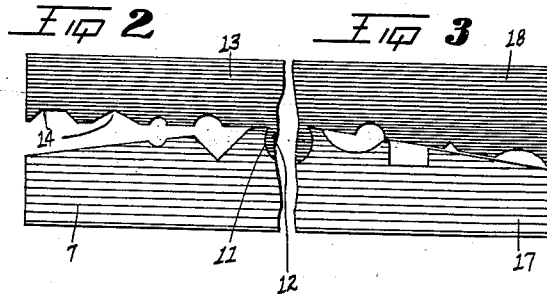
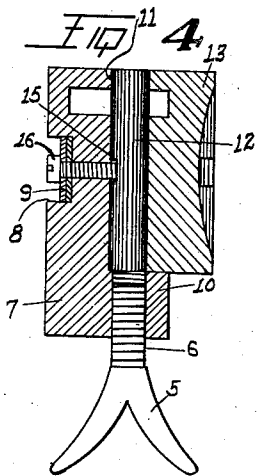
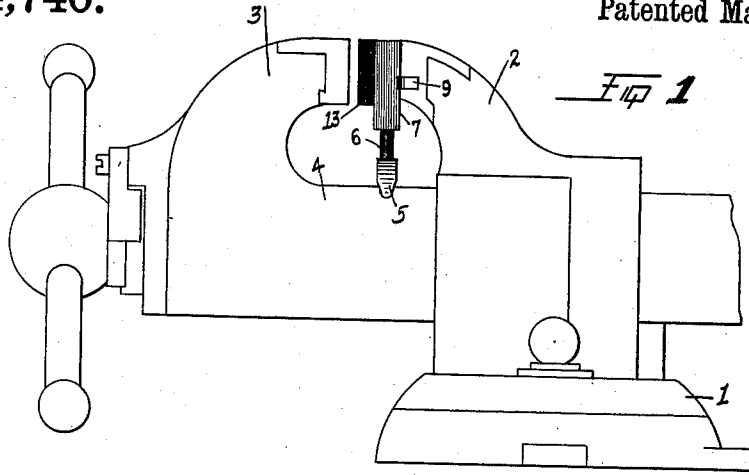


A. D. BACH.
 VISE ATTACHMENT.
 APPLICATION FILED MAY 25, 1912.

1,054,740.

Patented Mar. 4, 1913.



Witnesses
 Clarence Smith
 J. B. Webster

Inventor
 A.D. Bach
 By
 C. S. Webster
 Attorney

UNITED STATES PATENT OFFICE.

ALBERT D. BACH, OF HORNITOS, CALIFORNIA.

WISE ATTACHMENT.

1,054,740.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed May 25, 1912. Serial No. 699,658.

To all whom it may concern:

Be it known that I, ALBERT D. BACH, a citizen of the United States, residing at Hornitos, in the county of Mariposa, State of California, have invented certain new and useful Improvements in Vise Attachments; and I do declare the following to be a clear, full, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in vises and particularly to an attachment for vises adapted to hold odd and irregular shaped articles securely in the vise in order that they may be worked upon which is impossible with the ordinary straight jawed vise.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

This invention sets forth and claims a structure which I deem an improvement over my issued Patent No. 986,619, issued March 14, 1911 in that it provides a simpler structure for the adjustable jaw and also shows and embodies a plurality of depressions and recesses in the jaws capable of receiving various irregular articles in order to hold them more securely.

The above objects, I accomplish by means of such structure and relative arrangement of the parts as will fully appear by a perusal of the following specification and claims.

On the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of a vise showing my improved structure mounted thereon. Fig. 2 is a top plan view of a half of one of my improved jaw members. Fig. 3 is a top plan view of a half of another form of jaw member. Figs. 4 and 5 are sectional views of still two other different forms of jaw members, while Figs. 6, 7, and 8 are front elevations of jaw members showing the various different shaped recesses and depressions stamped therein.

Referring now more particularly to the characters of reference on the drawings, the numeral 1 designates the vise standard, while 2 designates the fixed jaw and 3 the movable jaw thereon having the usual projecting shank 4.

In applying my improved invention, I provide a forked standard 5 or any desired shape of standard, adapted to straddle the correspondingly shaped shank 4 and having a threaded pin 6 screwed into a block member 7 whereby said block member may be screwed up to be in exact alinement with the jaw 2. Said block is provided in its rear end with a slot 8 in which are inserted clamp springs 9 similar in structure to the clamp spring structure shown in my above mentioned patent, hence no detailed description of the same is given here, such spring clip being adapted to engage the jaw 2 to hold the block 7 in fixed position.

The block 7 is provided with a projecting shelf 10 at its lower end. Said block 7 is provided in its front face from the plane of the shelf 10 to its upper end with a vertical semi-circular groove 11 adapted to receive a pin 12 on an independent auxiliary jaw member 13 which slot and pin structure permits said jaw 13 to be swiveled in different directions when the different irregular shaped articles are disposed between the face of said jaw 13 and the jaw 3, the adjacent edges of said block 7 and said jaw 13 being cut obliquely away from each other for this purpose.

The adjacent surfaces of the members 7 and 13 are provided with a plurality of various irregular shaped articles and hold the same between the members 7 and 13 when the jaw member 3 is brought in contact with the jaw member 13.

In order to hold the jaw 13 in position in the slot 11, the pin 12 is provided with a groove 15 adapted to receive a bolt or screw 16 which projects through the spring members 9 and the block 7 as shown in Fig. 4, which structure will prevent the block 13 from becoming loosened from its position.

Fig. 3 shows a modified form of block and jaw in which the block 17 and the auxiliary jaw 18 is provided with a plurality of different shaped incisions in their adjacent faces for various purposes and in this modified form the two adjacent jaws of the mem-

bers 17 and 18 are adapted to contact one with the other as shown which is different from that structure shown in Fig. 2.

Fig. 5 shows still another modified form of structure in which the auxiliary jaw 19 is mounted in the block 20 in the same manner as in the other views but such jaw 19 is provided with an over-hanging lip 21 to engage the front face of the shelf 22. This form is particularly designed for use by wood workers where a greater bearing surface on the auxiliary jaw is desired.

Figs. 6, 7 and 8 show different forms of jaw members 23 and 24 and 25 respectively, all showing a varied number of recesses and depressions cut in the faces of said auxiliary jaw members, whereby allowing any form of irregular object to be received between the jaw members and fit therein and be held snugly by the vise.

From the foregoing description it will be readily seen that I have produced such a device as can be readily used for any number of irregular objects, but while I have shown but a few examples of different forms of jaw members adapted to be used for this purpose, still in practice I will use any form of jaw or any jaw member provided with any form of recess or depression found desirable for the purpose. Also the device is so constructed as to hold any bolt, screw, or any article with a head on it without marring the head.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such devia-

tions from such detail may be resorted to as do not form a departure from the spirit of the invention.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

1. A device of the character described comprising the combination with a vise having a fixed and a movable jaw, of an attachment for said vise, such attachment comprising a forked standard, a threaded pin on said standard, a block mounted on said threaded pin, a vertical slot in said block, clamp springs on said block, a pin projecting into said slot and provided with a transverse slot, a bolt projecting through said springs and into said last named slot, and an auxiliary jaw member mounted on said last named pin, as described.

2. A device of the character described comprising the combination with a vise having a fixed and movable jaw, of an attachment for such vise, such attachment comprising a fork standard, a threaded pin on said standard, a block mounted on said threaded pin, a vertical slot in said block, a pin projecting into said slot and provided with a transverse slot, a bolt projecting through said block and into said last named slot, an auxiliary jaw member mounted on said last named pin, said jaw member being provided with a plurality of irregular shaped incisions and depressions in its surface, as described.

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

ALBERT D. BACH.

Witnesses:

JOSHUA B. WEBSTER,
CLARENCE SMITH.