

H. C. WOODSTOCK.
VISE.

APPLICATION FILED JUNE 28, 1912.

1,049,024.

Patented Dec. 31, 1912.

FIG. 1.

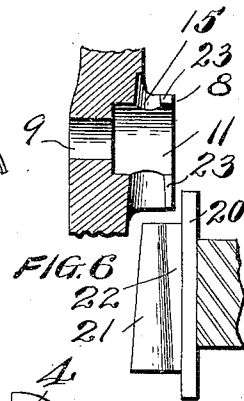
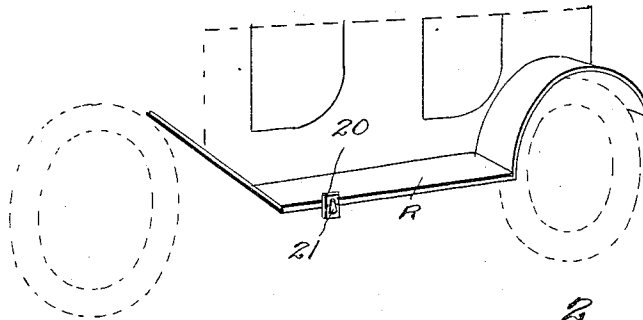


FIG. 2.

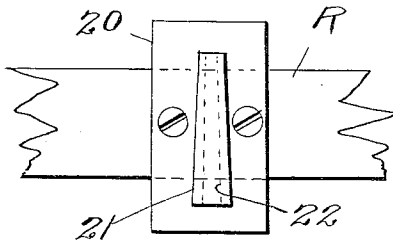


FIG. 3.

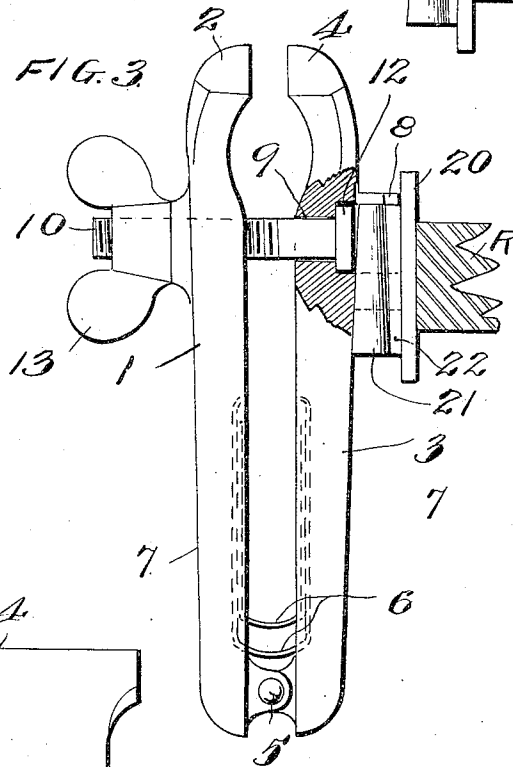


FIG. 4.

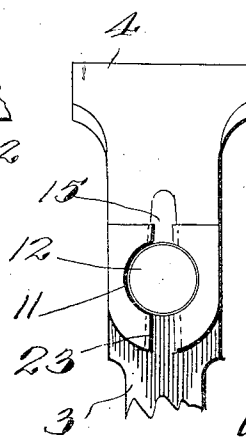
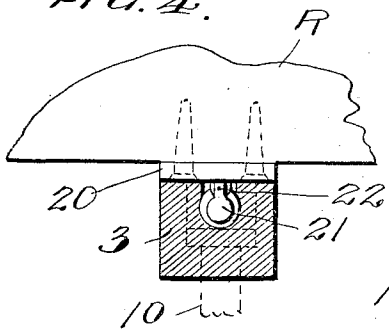


FIG. 5.

WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY C. WOODSTOCK, OF BRANFORD, CONNECTICUT, ASSIGNOR TO HAMMER & CO.,
OF BRANFORD, CONNECTICUT, A PARTNERSHIP.

WISE.

1,049,024.

Specification of Letters Patent.

Patented Dec. 31, 1912.

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To all whom it may concern:

Be it known that I, HENRY C. WOODSTOCK, a citizen of the United States, residing at Branford, Connecticut, have invented a new and Improved Vise, of which the following is a specification.

My invention relates to a vise and especially to a device of the class usually called hand vises.

10 The principal object of the invention is to adapt such a device for quick and secure attachment to a solid support, for instance the running-board of an automobile, so that the device may be used in the manner of an
15 ordinary bench vise and at the same time may be quickly and easily detached for packing away in the tool box.

A further object is to modify the construction of the hand vise to provide for its
20 connection with a permanent support secured to the running board.

The characteristics and advantages of the invention will be further pointed out so far as may be necessary in connection with a
25 detailed description of the accompanying drawing, which illustrates one exemplifying embodiment of the invention.

Figure 1 is a partial perspective view of an automobile showing the permanent support
30 in position on the running-board. Fig. 2 is a front view of the support. Fig. 3 is a side view showing the vise in position on its support, the part of the vise adjacent to the support being in section. Fig.
35 4 is a horizontal section through the part of the vise adjacent to the support. Fig. 5 is an enlarged side view of the head of the vise showing the end of the adjustment bolt adjacent to the support-socket. Fig. 6 is a
40 detail showing a fragment of the device in section ready to be placed upon the support, which is shown in full lines.

Reference character 1 designates one main part of the vise, terminating at its upper
45 end in a jaw 2. 3 is the other main part of the vise, terminating in jaw 4. At the other ends the two pieces are pivoted together at 5, and spring or springs 6 urge the jaws apart. The lower ends of the jaw pieces
50 are preferably rounded in cross-section to provide convenient handles 7 for conven-

iently holding the vise in the hand when it is desired to use it in that manner.

On the vise part 3 is formed a lug 8 for the double purpose of accommodating the
55 adjustment-bolt and the support-socket. A hole 9 extends all the way through the lug and member 3 and the bolt 10 passes through this hole and a similar hole in the opposite vise member 1. A counterbore 11 extends
60 from the outer face of lug 8 through the lug and somewhat into the body of the jaw piece 3 and this counterbore accommodates the head 12 of the adjustment bolt, which
65 when in working position rests against the shoulder formed at the bottom of the countersink. Wing nut 13 secured on the screw-threaded end of the bolt beyond the other
vise member 1 serves to adjust the vise jaws upon the work in an obvious manner. 70

Extending through lug 8 in the direction of the long axis of the jaw member 3, is the support socket 15, which, in a preferred form, takes the shape of a long, round, tapered bore intersecting the counterbore 11.
75 The support socket flares downwardly or away from the jaws, in the usual working position of the tool.

The support comprises a base 20 which is conveniently secured to the edge of the run-
80 ning board R of a motor car, and the support proper, 21, which has the form of a long tapered cone to accurately fit the tapered socket 15. The cone is integrally secured to the base 20 by a web 22 at one side,
85 and this web is accommodated by a longitudinal slot 23 cut longitudinally through the outer end of lug 8 and communicating with socket 15.

Ordinarily, the vise is packed away in a
90 tool box, but when occasion arises for its use on the road it is rigidly supported by placing the large lower end of socket 15 above the small upper end of the conical support 21, as shown in Fig. 6, and then
95 dropping the device down so that the cone 21 enters the socket when it automatically tightens and rigidly supports the vise while it is in use. This supporting arrangement holds the vise practically as rigid as if it
100 were itself screwed to the running board. When the desired work is finished the vise

may be removed by lightly tapping its lower end so that the socket is freed from the cone 21.

I have described one embodiment of the invention and it is to be understood that variations may be made within the spirit of my invention.

I claim:

1. The combination of two jaw members pivoted together, one of the members being provided with a lug near the jaw end thereof and a tapered socket in the jaw, an adjustment bolt passing through holes in the jaw members, the axis of said holes intersecting said lug and socket, and an adjustable tapered support adapted to cooperate with said socket and to be permanently fixed to a heavy body.

2. The combination of a vise support consisting of a tapered member and a base therefor secured to a heavy body, and a vise comprising clamping jaws, a lug on one of the jaws, the jaws being provided with a bolt hole passing through said lug, the bolt hole having a counterbore extending from the outer face of the lug into the adjacent jaw piece, an adjustment bolt passing through

said bolt holes and having a head resting in said counterbore, said lug being provided with a longitudinal tapered support socket to fit said support.

3. In a vise, the combination of clamping jaws pivoted together at one end, a spring for spreading the jaws, a lug on one of the jaws near the clamping end, the jaws being provided with a bolt hole extending through said lug, said hole being counterbored from its outer face, the lug also being provided with a long conical support socket intersecting said counterbore, the lug also having a longitudinal slot in its outer face communicating with said socket, an adjustment bolt passing through said bolt holes and having its head resting in said counterbore, clear from said socket, and a support permanently fixed to a heavy body such as an automobile running board, said support comprising a base and a conical support proper adapted to fit said socket and support said vise rigidly but detachably.

HENRY C. WOODSTOCK.

Witnesses:

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CLAYTON W. FOOTE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."