

"Oliver" No. 1 Universal Vise

For Patternmakers and Woodworkers

This is the Newest, the most Improved and the most Efficient
Patternmaker's and Woodworker's Vise
on the market—investigate!

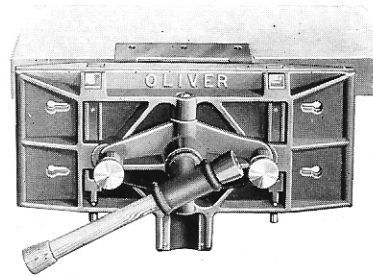


Fig. No. 1
Showing "Oliver" No. 1 Universal Vise
in its natural position. Note
rigidity of construction and
unique design.

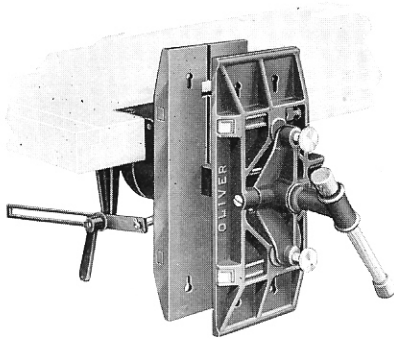


Fig. No. 3
Vise in upright position for work above
bench level

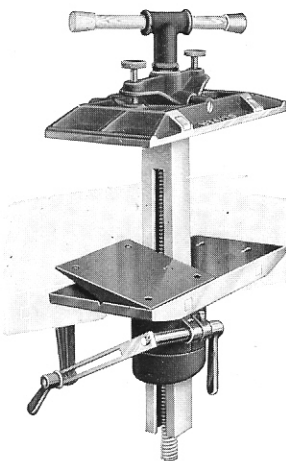


Fig. No. 4
Vise with jaws horizontal and tilting
jaw in place

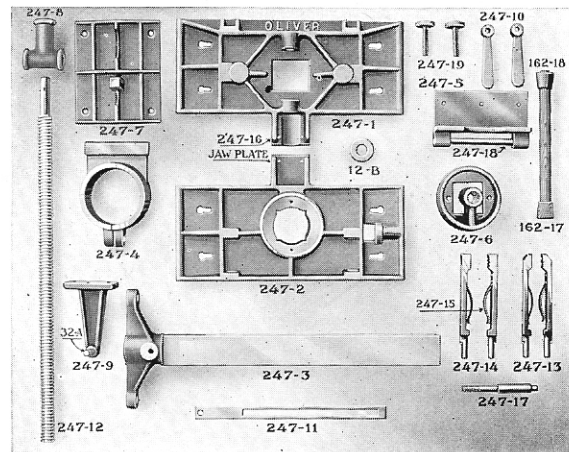


Fig. No. 2
A demonstration of the fact that "Oliver" No. 1 Universal Vise
has fewer parts than any other similar vise.

Oliver Machinery Co.

Grand Rapids, Mich., U. S. A.

BRANCH OFFICES:

New York Chicago St. Louis Minneapolis Los Angeles San Francisco
Seattle Salt Lake City Denver Phoenix Manchester, Eng.

"Oliver" No. 1 Universal Patternmaker's and Woodworker's Vise

This Vise was designed to overcome all objections on other makes of Universal Woodworker's Vises and has incorporated in it important features not found on any other vise now on the market, which make it the most advanced, most adaptable, convenient and practical woodworker's vise ever produced. A trial on any awkward, special or irregular work and either large or small straight pieces which you find difficult to hold in any other Woodworker's Vise, will convince you of its superiority.

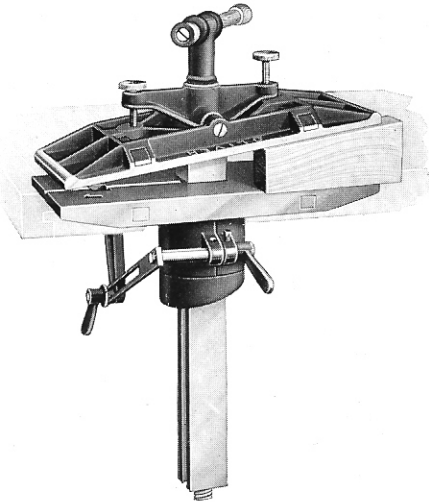


Fig. No. 5
Jaws horizontal, clamping angle piece.

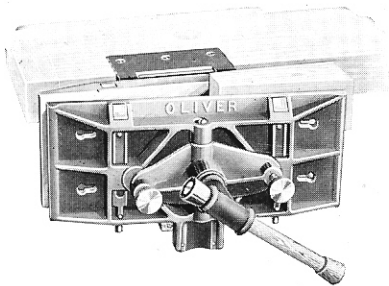


Fig. No. 6
Jaws vertical, clamping on angle

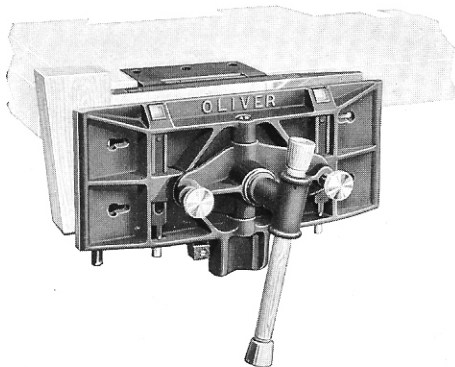


Fig. No. 7
Jaws set to clamp either parallel or wedge shaped work.

Construction Jaws are $7\frac{1}{4}$ inches wide, 18 inches long, will open up to 16 inches. The design and finish is the last word in vise construction. Heavy ribs to the corners of the jaws, also to the center of clamping, strain point, assure great rigidity and holding power the whole length of the jaw and not only in the center as on ordinary vises. The screw is steel $1\frac{1}{8}$ inches diameter with buttress thread, has a self-centering and detachable nut, which can be easily removed for replacement. Note the rigid construction of the trunion, which is part of the back jaw, illustrated in figure 5; also the clamp lever used for clamping the jaws in any position in complete circle. The beam or bar is so constructed that the metal filings, when working on metal patterns, will not fall into the screw and wear the threads; a decided advantage over other Vises.

Figure 1 Shows the "Oliver" Universal Vise in its normal position with the jaws flush with the bench top. Note its very rigid construction.

Figure 2 Demonstrates the simplicity of construction of the "Oliver" Universal Vise. It has fewer parts than any other similar vise, therefore less liable to get out of order. All parts are drilled and planed on jigs insuring interchangeability. Special attention has been given to the screw and nut, which are the main wearing parts in any vise.

Figure 3 Shows the vise with the jaws in a vertical position for holding work above the bench and also for holding long work, allowing one end to rest on a pin set in front of the bench. This position is of great advantage to coach and automobile body builders.

Figure 4 Illustrates the "Oliver" Universal Vise in an upright position, having the jaws horizontal with angle jaw in position. This angle jaw is detachable and used for small irregular shaped pieces. Note that the locking bar is flat and not round, which prevents slipping of the vise when set up in any position from 0 degrees to 90 degrees.

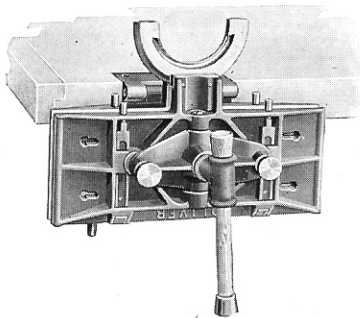


Fig. No. 8
Showing use of steel faced jaws.

Figures 5, 6, 7 Show the Vise holding wedge shaped work. Note the swiveling front jaw which pivots in the center and which can be set by means of the thumb screws shown, to take a wedge shaped piece as shown on figures 5 and 6, and without resetting the adjusting thumb screws, to clamp the work on the parallel sides as illustrated in figure 7. A wedge piece, where you have work on the angle side as well as on the face side, can be clamped on the angle side, the work done, piece taken out and again clamped on the parallel sides without resetting the thumb screws. In other words the Vise will clamp either a parallel side piece, or a tapering side or edge piece with equal rigidity.

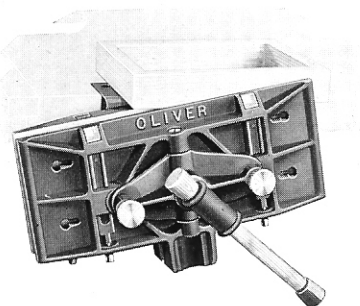


Fig. No. 9
To hold boxes or drawers above bench top.

Figure 8 Illustrates the Vise with jaws for holding metal parts swung in working position; a very handy feature for working in metal patterns.

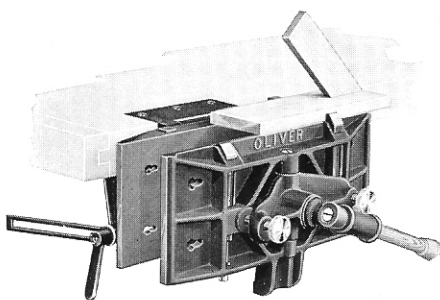


Fig. 10
Holding odd work between dogs.

Figure 9 Shows method of holding frames and box forms. The tilting feature of the jaws makes it very convenient for operator to work on material of this shape.

Figure 10 Shows Vise with one front and rear dog extended for clamping pieces to be worked on the surface. Larger work can be handled by having a row of square holes cut in the bench top opposite to those in the vise and using hardwood dogs.

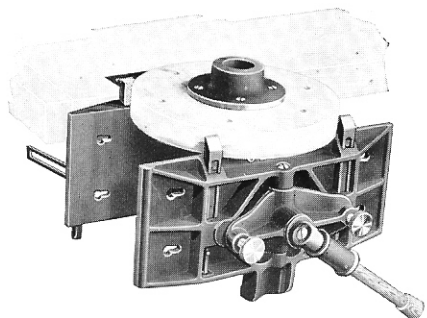
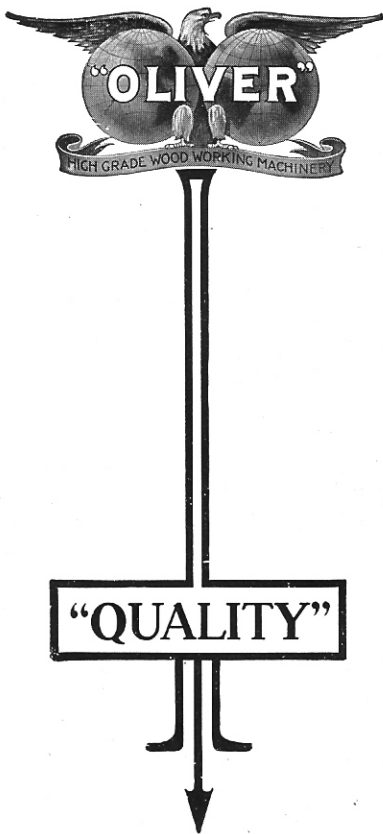


Fig. 11
Use of vise dogs to hold circles, rings or segments.

Figure 11 Shows Vise with two front dogs extended for holding circular work. With this feature any irregular work, such as segments of regular curves, etc., can be easily handled.

CODE, WEIGHT, ETC.

Code	No.	Description	Jaws	Open	Boxed Weight	Cubic Feet
Locab	1	Universal Vise	18" x 7 $\frac{1}{4}$ "	16"	85 lbs.	2



"Oliver" Woodworker's Vises

Solid Nut or Quick Acting

Introduction

These are strong, efficient and reliable, quick acting vises, with fewer parts than any other wood workers' vise on the market. They are good vises at a low price. They are made with cast iron jaws, steel screw and guide bars and a bronze nut. Simplicity is their strong recommendation and we guarantee them to be all right.

Advantages

We have observed the needs for strong and efficient vises, that are simple, not easy to get out of order, and which make the least noise. We did a great amount of experimenting before putting this new line of vises on the market. By a trial we can convince you of their efficiency.

Construction

The front jaw, the screw and guide bars pass through a cast plate pivoted to the bed plate of the back jaw. This bed plate has a casing in which is located the bronze nut for engaging the screw. The nut has a pin which is placed in the round hole in the casing and holds it in place. Four bolt holes in the bed plate receive the bolts for securing it firmly to the bench.

Screw

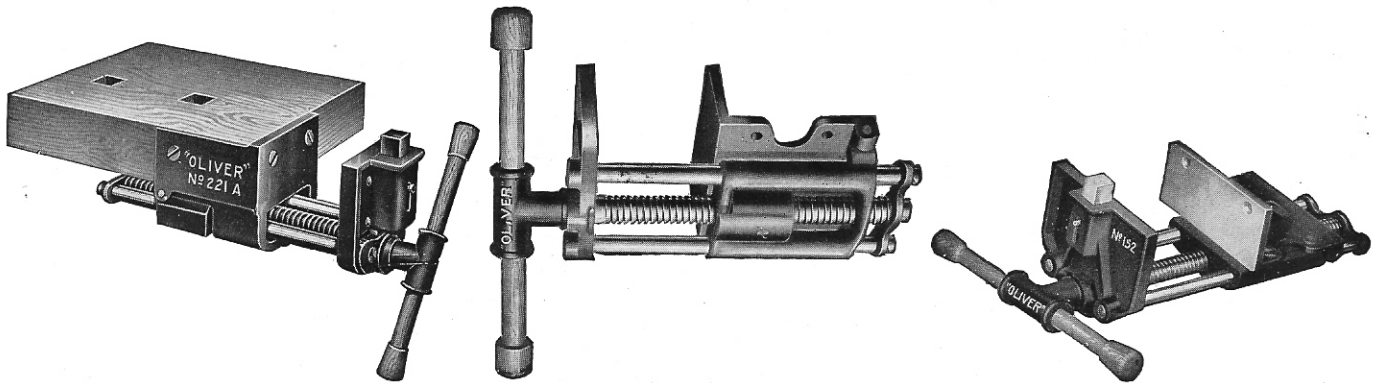
The screw in these vises has double thread, therefore rapid motion is assured, because for each revolution of the handle the front jaw moves twice as far as with the ordinary thread. The screw is $1\frac{1}{8}$ " diameter, equipped with the buttress thread which gives the greatest compression with the least friction. The screw action is continuous. Guide bars are 1" diameter.

Quick Action

Quick action is easily secured by lifting up the screw free from contact with the nut. At any position the front jaw may be let go and the screw and nut again engaged for screwing any distance. The tighter the vise the closer the screw hugs the nut.

Solid Nut

The Solid Nut Continuous Screw Vises in which a double thread screw represents all the quick action necessary, differs from the quick action vise only in having a solid nut in place of the half nut.



No. 221-A Quick Acting Tail Vise

Plain Front Jaw Vise
(Solid Nut or Quick Acting)

Vise with Steel Dog.

CODE, WEIGHT, ETC.

Code	No.	Kind	Above Screw	Jaw Width	Length Open	Shipping Weight
Luba	150-A	Quick Acting Vise, plain front jaw	4"	7"	9"	55 lbs.
Lubab	150-D	Quick Acting Vise, 1" steel dog	4"	7"	9"	55 lbs.
Lube	151-A	Quick Acting Vise, plain front jaw	4"	10"	12"	65 lbs.
Lubef	151-D	Quick Acting Vise, 1" steel dog	4"	10"	12"	65 lbs.
Lubo	160-A	Solid Nut Vise, plain front jaw	4"	7"	9"	55 lbs.
Lubok	160-D	Solid Nut Vise, 1" steel dog	4"	7"	9"	55 lbs.
Lubom	161-A	Solid Nut Vise, plain front jaw	4"	10"	12"	65 lbs.
Lubuf	161-D	Solid Nut Vise, 1" steel dog	4"	10"	12"	65 lbs.
Lubum	221-A	Quick Acting Tail Vise, 1" steel dog	4"	4"	6"	45 lbs.