

OLIVER

No. 1

UNIVERSAL VISE

For Pattern Makers and Woodworkers

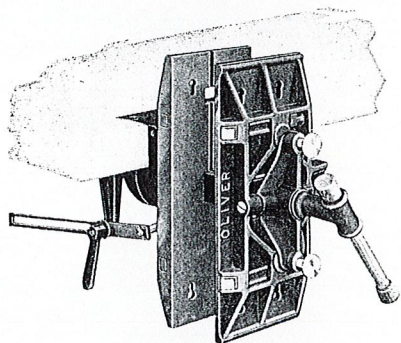


FIG. NO. 3

Vise in upright position for work above bench level.

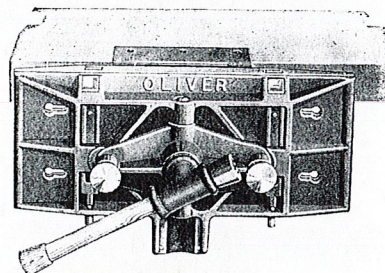


FIG. NO. 1

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

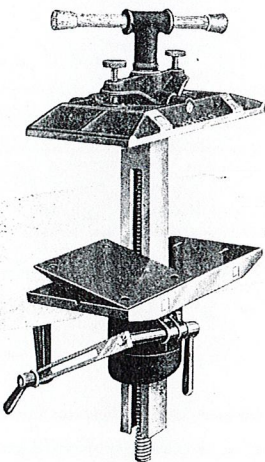


FIG. NO. 4

Vise with jaws horizontal and tilting jaws in place.

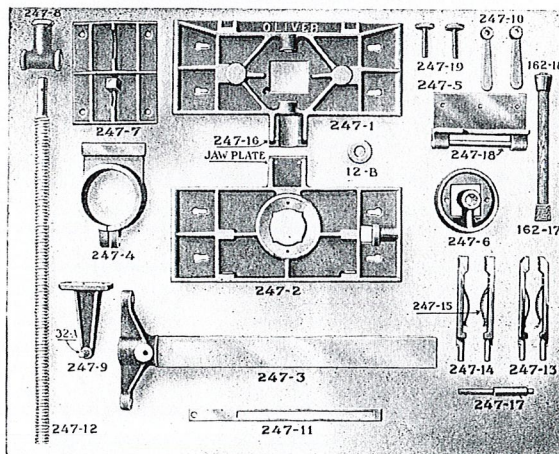


FIG. NO. 2

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



OLIVER MACHINERY COMPANY, GRAND RAPIDS 2, MICHIGAN, U.S.A.

This vise was designed to overcome all objections on other makes of Universal Woodworker's vises and has incorporated in it im-

ports, 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.

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.

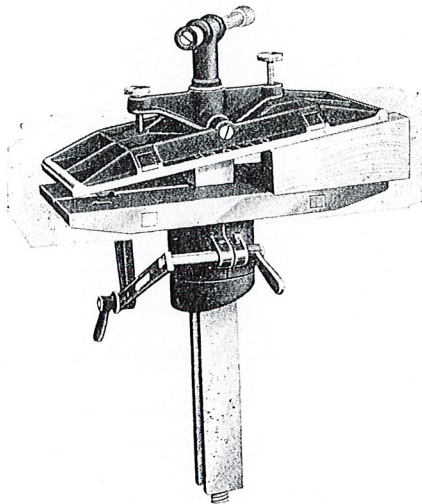


FIG. NO. 5

Jaws horizontal, clamping angle piece

The screw is steel and the threads are 1 1/8 inches in diameter, has a self-centering and detachable nut, which can be removed easily 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

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.

portant 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.

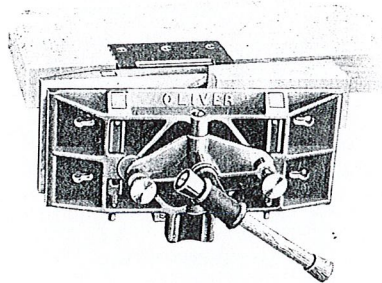


FIG. NO. 6

Jaws vertical, clamping on angle.

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.

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 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

CONSTRUCTION

Jaws are 7 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

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

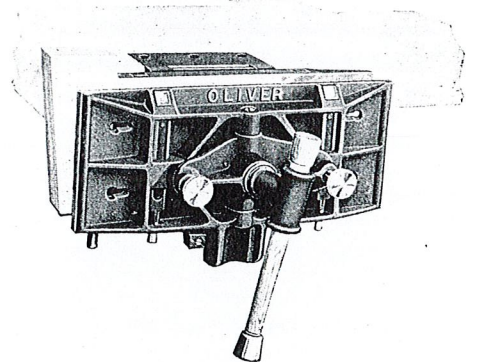


FIG. NO. 7

Jaws set to clamp either parallel or wedge shaped work.

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.

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 screw shown, to take a wedge shaped piece as shown on Figures 5 and 6, and without resetting the

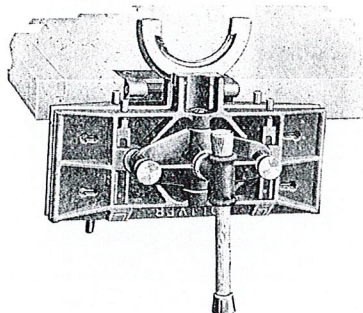


FIG. NO. 8

Showing use of steel faced jaws

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

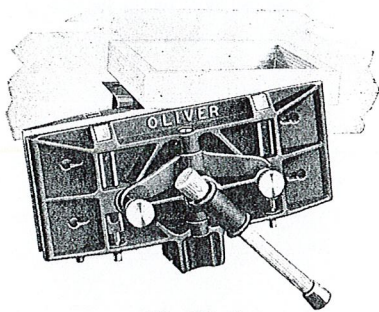


FIG. NO. 9

To hold boxes or drawers above bench top

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.

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

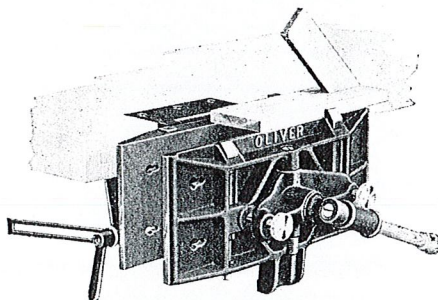


FIG. NO. 10

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

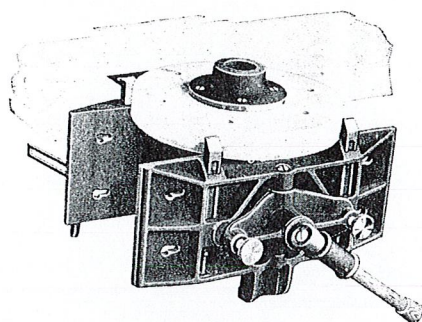


FIG. NO. 11

Use of dogs to hold circles, rings or segments

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.

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	MACHINE DESCRIPTION	SHIPPING WEIGHT	CUBIC FEET
Fervon	No. 1 — Universal Vise — Jaws 18" x 7¼" — Open 16"	125 lbs.	5

OLIVER No. 221-A WOODWORKER'S VISE

SOLID NUT TYPE

INTRODUCTION

This is a strong, efficient and reliable vise with fewer parts than any other woodworker's vise on the market. They are made with heavy jaws, steel screw and guide bars, and a bronze nut. Simplicity is its strong recommendation and we guarantee it to be 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 vise on the market.

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 casting and holds it in place. Four bolt holes in the bed plate receive the bolts for securing it firmly to the bench.

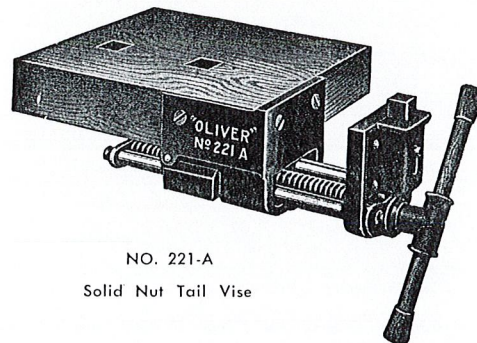
SCREW

The screw 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 1/8-inch diameter, equipped with the buttress thread which gives the greatest compression with the least friction. The screw action is continuous. Guide bars are 1-inch diameter.

SOLID NUT

The Solid Nut Continuous Screw Vise 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 split nut.



NO. 221-A
Solid Nut Tail Vise

CODE, WEIGHT, ETC.

CODE	NO.	KIND	ABOVE SCREW	JAW WIDTH	LENGTH OPEN	SHIPPING WEIGHT
Lubum	221-A	Solid Nut Tail Vise, 1" steel dog	4"	4"	6"	45 lbs.



OLIVER MACHINERY COMPANY

Grand Rapids 2, Michigan, U.S.A.

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