E. J. KELLEY.

REPAIR STAND.

APPLICATION FILED MAR. 30, 1917.

1,283,795. Patented Nov. 5, 1918.

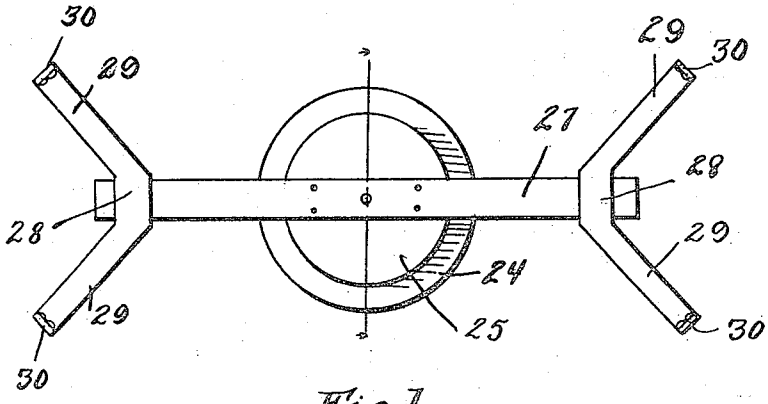


Fig. 1.

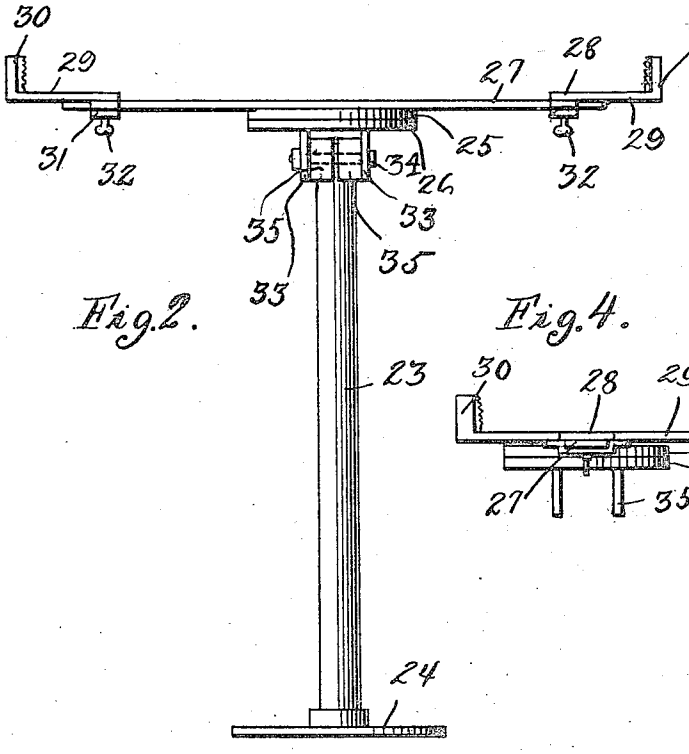


Fig. 2.

Fig. 4.

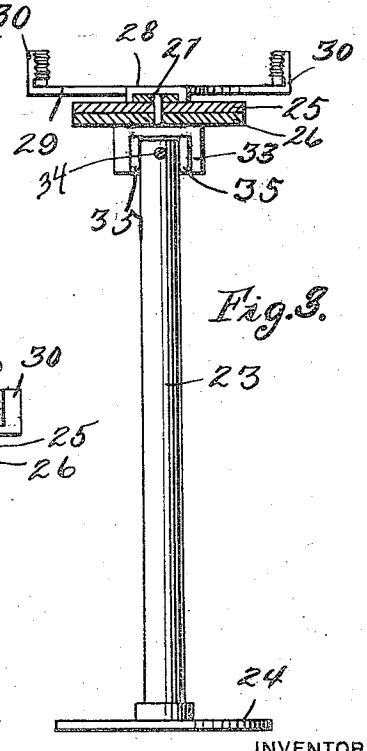


Fig. 3.

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REPAIR-STAND.

1,283,795. Specification of Letters Patent. Patented Nov. 5, 1918.

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To all whom it may concern:

Be it known that I, ELMER J. KELLEY, a citizen of the United States, residing at Algona, in the county of Kossuth and State of Iowa, have invented certain new and useful Improvements in Repair-Stands, of which the following is a specification.

The present invention has reference generally, to improvements in work holders, and more particularly to repair stands especially adapted for use when repairing automobile radiators.

The invention embraces a pair of disk like plates one of which is rotatable with respect to the other and on each rotatable plate is arranged novel means for clamping a radiator or other object, novel means being also provided for adjustably connecting the plate to a main support, consequently forming an arrangement which will readily permit of an object clamped on the rotatable plate, being placed in any desirable position.

The invention also includes a clamping bracket associated with the main support and being constructed to receive a support on the stationary plate.

As a more specific feature, the invention produces novel means for adjustably maintaining the clamps in position and incidentally produces pads for association with the clamps.

Among the other aims and objects of the invention, may be recited the provision of a device of the character mentioned with a view of compactness, the number of parts of which are few, the construction simple, the cost of production low and the efficiency high.

Other and further improvements and novel details in the construction and arrangement of parts will be apparent from the description to follow, which for a clear understanding of the invention should be considered in connection with the accompanying drawings, forming a part hereof wherein the invention is shown for the purpose of illustration.

One practical form of construction and assembly will be described and illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of the assembled device,

Fig. 2 is a side elevation of the device,

Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1, and

Fig. 4 is an end elevation of the clamping means shown in Fig. 1 and removed from the supporting standard.

In Figs. 1 to 4 another embodiment of the invention is shown and consists of an upright supporting standard 23 having a base 24 to which is connected the standard 1. The work clamping means comprises two disks 25 and 26 rotatably connected together so as to have a movement relative to each other. The disk 25 has secured thereto an elongated bar 27 which extends diametrically across the disk and beyond the periphery thereof, as shown in Figs. 1 and 2. Upon each of the extended arms of the bar 27 there is slidably adjustably mounted the clamping member 28, this member consists of two oppositely extending and diverging arms 29 having their outer ends upturned at substantially right angles thereto, forming the gripping jaws 30. The arms 28 are slidably mounted on the bar 27 by a slotted body portion 31 to which are secured the arms. This body portion has a thumb screw 32 threadedly engaged therein and is adapted to be moved into contact with the under-surface of the bar 27 for frictionally holding the arms in their several adjusted positions.

It will thus be seen that an automobile radiator or other object, can be clamped upon the stand by suitable adjustment of the clamping members 28 by bringing the arms 29 into proper engagement with the object. In view of the pivotal connection between the disks 25 and 26, the radiator may be moved while clamped to the stand to a convenient position to be worked upon.

The clamping means is adjustably removably secured to the upper end of the standard 23 by means of the spaced and depending flanges 33 projecting from the under-surface of the disk 26. The flanges 33 are designed to lie at substantially diametrically opposite sides of the upper end of the standard 23 and are pivoted thereto by a bolt 34 extending through the flanges and the standards. To facilitate the securement of the clamping means, the complemental blocks 35 are inserted between the flanges and the standard, the blocks being provided with a surface which will conform to the contour of the standard, and are frictionally brought into engagement with the standard as the nut is run up on the bolt 34.

Minor changes in form, proportion and

details of construction may be resorted to without departing from the spirit of the invention or the scope of the appended claims. Special emphasis is laid however, upon the rotatable plates with the clamping arms adjustably carried by one of the plates.

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

1. A repair stand comprising a standard, a plate rotatably mounted on the standard, two arms diametrically extending across from the plate, a clamping member slidably mounted on each arm and consisting of oppositely extended diverging clamping arms, and means for securing said clamping members in adjusted position on said first mentioned arm.

2. A repair stand comprising a supporting standard, a work clamping means comprising two pivotally connected plates, one of said plates having arms extending therefrom, clamping members adjustably mounted on said arms and adapted to secure the work in position, flanges depending from the other of said plates and adapted to lie on opposite sides of the standards at its upper end, and adjustable means connecting said flanges together and adapted to cause the same to bind on said standard whereby the clamping means is held in position.

3. A repair stand which comprises a standard, a base for the standard, a pair of rotatably connected plates, the lower end of said plates being secured to the upper end of the standard, the upper plate having a stationary bar secured thereon so that its ends project outward on one diameter of the plate, adjustable clamping members slidably mounted on the arms and adapted to hold an object therebetween, each of said members composed of a slotted body portion having arms extending outwardly therefrom and diverging from each other, the ends of said arms being bent at right angles and formed as gripping jaw, said slotted portion being provided with a set screw adapted to engage with the stationary arm.

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

ELMER J. KELLEY.

Witnesses:
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J. F. NICONLIN, Jr.