Oct. 23, 1951 J. MAXWELL 2,572,502

LOCATING TOOL

Filed Oct. 21, 1947

Fig. 1.

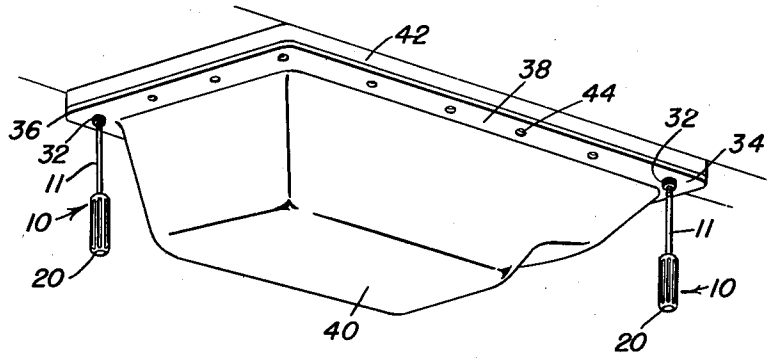


Fig. 2.

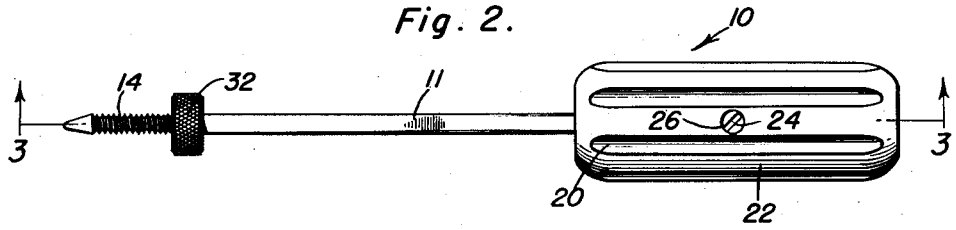


Fig. 3.

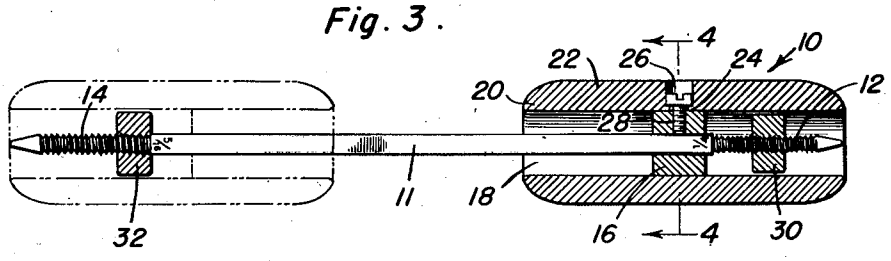


Fig. 4.

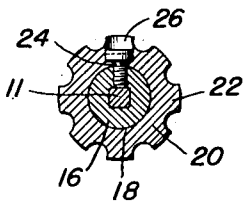
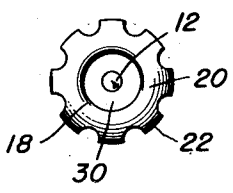


Fig. 5.



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LOCATING TOOL

John Maxwell, Elizabeth, N. J.

Application October 21, 1947, Serial No. 781,071

1 Claim. (Cl. 29—285)

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This invention relates to locating tools and the primary object of the present invention is to provide a device for aligning oil pans, radiator cores and other parts of automobiles with their respective bases temporarily until permanent fasteners can be applied.

Another important object of the present invention is to provide an oil pan assembling device including an elongated shank having threaded end portions of various sizes that are applicable for oil pans, radiator cores and the like having apertures of various diameters.

A further object of the present invention is the provision of an assembling tool of the aforementioned character including a shank, a handle slidably and adjustably mounted on the shank and novel and improved means for supporting an oil pan and the like and for limiting the sliding movement of the handle on the shank.

A still further aim of the present invention is to provide a tool for temporarily supporting an object upon its base that is simple and practical in construction, strong and reliable in use, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view illustrating the present tool positioned to align the openings of the crank case and oil pan, and also supporting the oil pan in a correct position;

Figure 2 is an elevational view of the present tool;

Figure 3 is a longitudinal vertical sectional view taken substantially on the plane of section line 3—3 of Fig. 2, and with dotted lines showing an alternate position of the handle;

Figure 4 is a transverse vertical sectional view taken substantially on the plane of section line 4—4 of Fig. 3, and,

Figure 5 is an end view of Fig. 2.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents the present tool generally, comprising an elongated shank 11, that is externally threaded at each of its ends 12 and 14. It is preferred, that one end for example end 12 be of a diameter of ¼" and that the opposite end 14 be of a diameter of 5/16". It has been found that with the above dimensions, the tool will be most applicable for the many parts of various types of conventional vehicles.

Slidably mounted on the shank 11 is a sleeve 16 that is fixedly secured in the axial bore 18 of a substantially cylindrical handle 20 having a plurality of circumferentially spaced longitudinal ribs 22 furnishing a finger gripping portion. A

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fastener 24 recessed in an opening 26 in the handle extends through an aligned opening 28 in the sleeve 16 for selectively adjusting the handle on shank 11.

Receivably engaging each of the ends 12 and 14, are knurled surfaced support nuts 30 and 32 that limit the sliding movement of the handle in both directions.

In practical use of the device, it is preferred that two of the tools be employed for extending through apertures in opposite corners 34 and 36 of the flanged portion 38 of an oil pan 40 to engage aligned apertures in the crank case 42. In this position, the oil pan will be temporarily supported on the nuts either 30 or 32 of the tool so that permanent fasteners (not shown) may be engaged in the unoccupied aligned apertures 44 in the flanged portion of the oil pan and the crank case.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

Having thus described the invention, I claim:

Means for temporarily securing the flanged portion of an object in place upon its support while permanent fasteners are being applied, said means comprising an elongated shank externally threaded at each end, a handle slidably mounted on said shank, a set screw carried by the handle for locking said handle in selectively adjusted position longitudinally along said shank, and means receivably engaged on said threaded ends for supporting the flanged portion of an object and for limiting the sliding movement of the handle on the shank in both directions.

JOHN MAXWELL.

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