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DIAL INDICATOR STAND

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Fig. 1

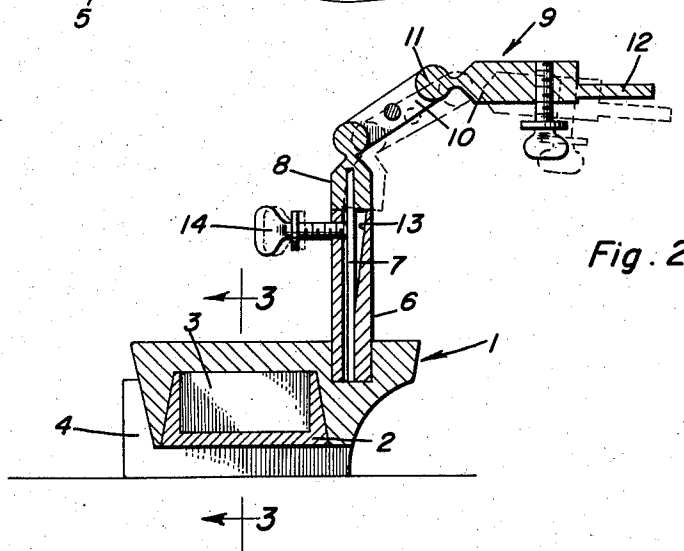
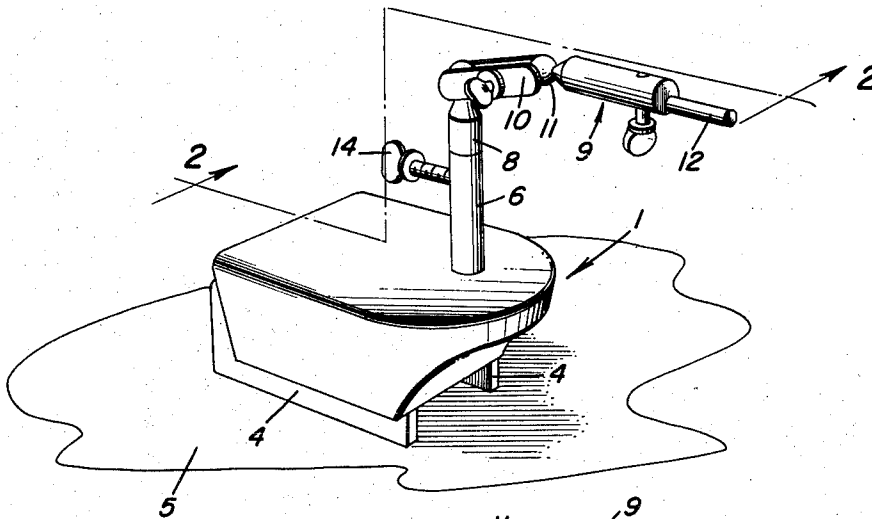


Fig. 2

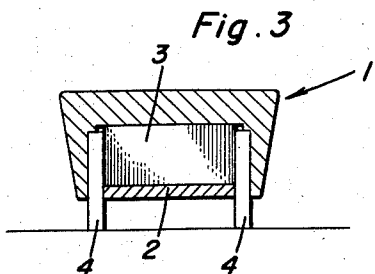


Fig. 3

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DIAL INDICATOR STAND

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3 Claims. (Cl. 248—160)

The present invention relates to new and useful improvements in stands or holders, particularly for dial indicators and other instruments, and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character comprising novel adjusting means.

Another very important object of the invention is to provide a dial indicator, etc., stand or holder of the character described which includes a novel base structure for magnetically securing the device on a support.

Other objects of the invention are to provide an adjustable, magnetically secured dial indicator, etc., stand or holder of the aforementioned character which will be comparatively simple in construction, strong, durable, compact, of light weight and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of an indicator, etc., stand or holder constructed in accordance with the present invention;

Figure 2 is a view in vertical, longitudinal section through the device, taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a view in transverse section, taken substantially on the line 3—3 of Figure 2.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a substantially flat, somewhat elongated base of suitable material which is designated generally by the reference character 1. The base 1, which may be of any desired dimensions, is substantially U-shaped in top plan.

Sealed by a suitable cement 2 in the base 1 is a permanent magnet 3. The poles 4 of the magnet 3 are in the form of elongated plates of suitable magnetic material which are sealed in the base 1. The poles 4 are mounted longitudinally in the base 1 in spaced, parallel relation to each other, with their lower longitudinal marginal portions and one end portion exposed. The poles 4 are engageable with a suitable supporting surface, as indicated at 5, for magnetically securing the base 1 in position thereon.

Fixed in the rounded forward end portion of the base 1 and rising therefrom is a tubular post 6. A resilient rod or stem 7 has its lower end portion fixed in the corresponding portion of the post 6. The resilient stem 7 rises above the post 6 and has fixed on its upper end portion a head 8. Mounted for universal swinging adjustment on the head 8 is an arm 9. The arm 9 includes any desired number of sections 10 which are connected by ball and socket or universal joints 11. On its free end

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the arm 9 is provided with suitable means 12 for mounting a dial indicator or other instrument on said arm.

The upper portion of the bore of the tubular post 6 is laterally enlarged as indicated at 13 to permit adjustment of the resilient stem 7 with the arm 9 thereon. This is accomplished through the medium of a thumb screw 14 threadedly mounted in the post 6 and engaged with the stem 7 for flexing or bending said stem.

It is thought that the use of the device will be readily apparent from a consideration of the foregoing. Briefly, with the indicator or other instrument on the free end of the arm 9, the base 1 is positioned on a suitable support, as indicated at 5, where said base is magnetically secured. Through the medium of the universally adjustable arm 9, the indicator is positioned relative to the work. Fine adjustments may then be expeditiously and accurately made through the medium of the thumb screw 14, which as hereinbefore stated bends the upper portion of the resilient stem 7 in the portion 13 of the bore of the tubular post 6 with the arm 9 on said stem. If desired, a suitable protective plate may be provided for the poles 4 when the device is not in use.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. An instrument stand of the character described comprising: a base, a tubular post rising from and fixed to said base, a resilient rod mounted in said post, means for mounting an instrument on said rod, and means for flexing the rod in the post for adjusting the instrument relative to the work.

2. An instrument stand of the character described comprising: a base, a tubular post rising from and fixed to said base, a resilient rod mounted in said post, means for mounting an instrument on said rod, and means for flexing the rod in the post for adjusting the instrument relative to the work, the last named means including a thumb screw threadedly mounted in the upper portion of the post and engaged with the rod for flexing same in said post, said post having a bore for receiving said rod provided with a lateral enlarged portion for flexing of said rod into the same.

3. An instrument stand of the character described comprising: a base, a tubular post rising from and fixed to said base, a resilient rod mounted in the post and having a lower portion fixed thereto and an upper portion free thereof, an arm mounted on the upper end portion of the rod, means for mounting an instrument on said arm, and a screw threadedly mounted in the post and engaged with the rod for flexing same for adjusting the instrument relative to the work.

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