

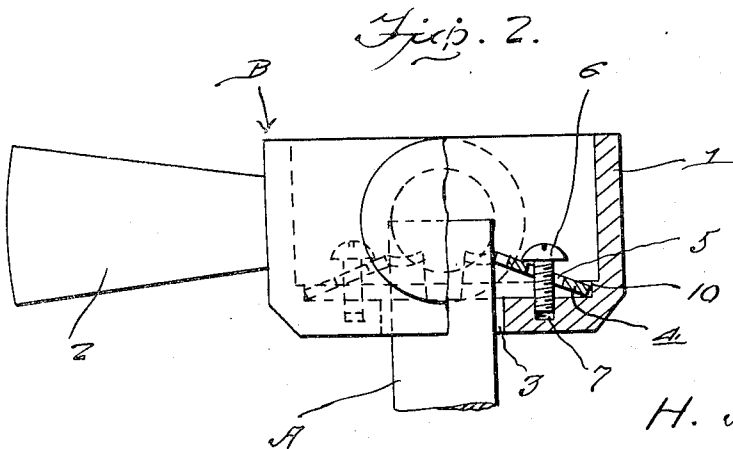
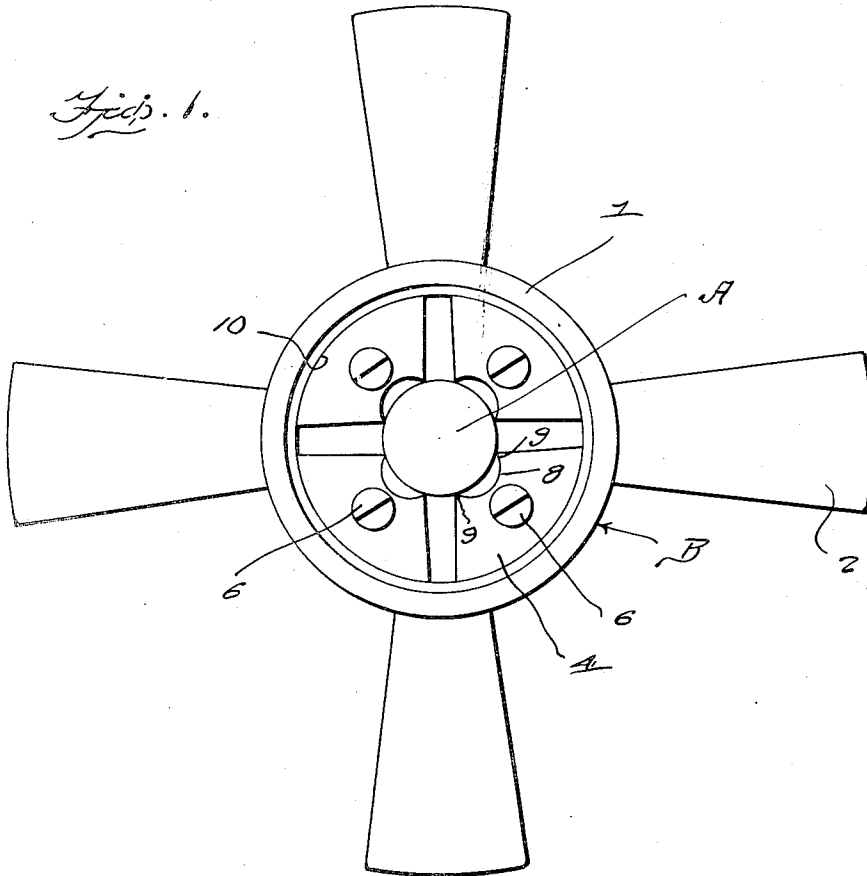
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MEANS FOR ATTACHING A HANDLE TO A STEM OR SPINDLE

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MEANS FOR ATTACHING A HANDLE TO A
STEM OR SPINDLE

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2 Claims. (Cl. 287—53)

This invention relates to means for attaching a handle to the stem or spindle of a faucet, valve or the like, the general object of the invention being to provide means whereby a handle can be easily and quickly connected to stems or spindles of different types and sizes.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a top plan view showing the handle attached to a spindle.

Figure 2 is a side view, with parts broken away and parts in section.

In this drawing, the letter A indicates the stem or spindle of a faucet, valve or other member and the letter B indicates the improved handle. This handle includes the substantially cup-shaped member or hub 1 and the radiating projections 2. The bottom of the handle is formed with a hole 3 through which the spindle or stem A extends and a number of substantially arcuate-shaped plates 4 are located in the cup-shaped hub and each has a hole 5 therein through which passes a screw 6 which is threaded in a threaded hole 7 in the bottom of the hub. Each hole 5 is of considerably larger diameter than the shank of the screw, as shown in Figure 2. The inner or small end of each plate has a substantially semi-circular recess 8 therein, with the side edges of the plate formed with a pair of points 9 for engaging parts of the spindle or stem A. An annular recess is formed in the bottom of the cup-shaped member to form an annular shoulder 10 against which the outer rounded edges of the plates 4 rest, as shown in Figure 2.

Thus it will be seen that by placing the hub 1 over the stem or spindle A and then tightening the screws 6, the points 9 of the plates or wedges 4 will engage or partly penetrate parts of the stem or spindle and thus lock the hub to the spindle so that the spindle can be turned by turning the handle B. As will be seen, the plates or wedges 4 bear against the shoulder 10 so that as they are forced downwardly by the screws, the points are brought firmly against the spindle and thus the handle is firmly locked to the spindle.

This device can be used where the regular handle has been broken off or becomes detached from

the stem or spindle of a device and by providing one or more of the shoulders 10 of different diameters than the interior of the hub or from each other, the same handle can be used on a plurality of different sizes of stems or spindles and on spindles or stems of different shapes.

This article differs from other devices on the market today in that the application of the force which secures the holding device is indirectly applied and is applied through a pressure exerted parallel to the center of the stem or spindle to which it is fastened, thus causing a secondary force to be applied directly at an angle to the plane of the central axis of the stem or spindle. Thus it will be seen that while some handles use one or more set screws, at right angles to the longitudinal axis of a stem, and some use a spiral thread which cuts its way around the longitudinal axis of a stem or spindle, in this device the primary force is applied parallel to this axis, but as this force is only secondary, it is required that this force be transmitted through a medium—this medium being the plates 4.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What is claimed is:—

1. Means for attaching a handle to a stem comprising a cup-shaped hub forming part of the handle and having an opening therein for receiving a part of the stem, plates located in the hub and having points thereon for engaging the stem and screws passing through the plates into the hub for forcing the points into engagement with parts of the stem.

2. Means for attaching a handle to a stem comprising a cup-shaped hub forming part of the handle and having an opening therein for receiving a part of the stem, plates located in the hub and having points thereon for engaging the stem, screws passing through the plates into the hub for forcing the points into engagement with parts of the stem, and a shoulder forming part in the hub against which the outer edges of the plates bear.

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