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A. H. ROVER

2,233,962

FAUCET HANDLE

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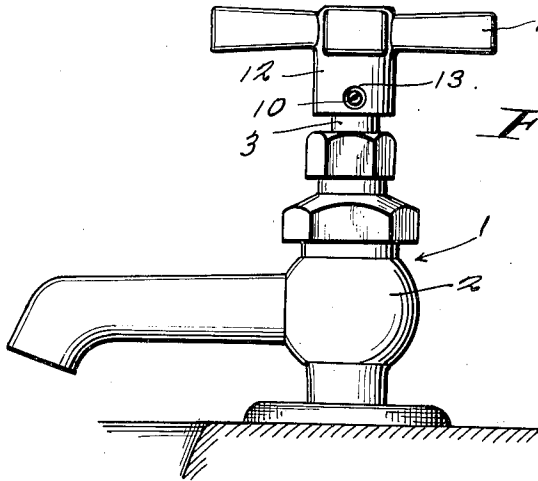


Fig. 1

Fig. 2

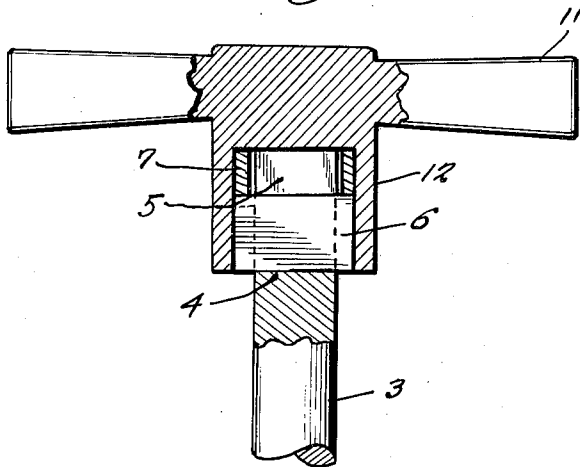


Fig. 3

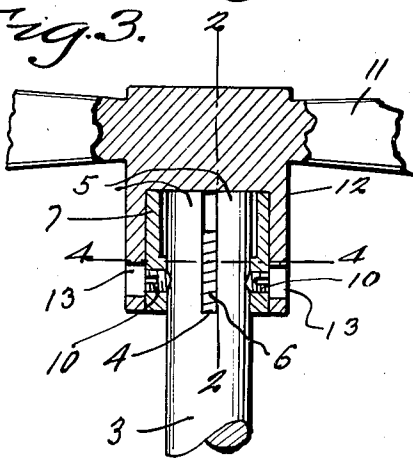


Fig. 5

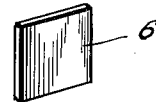


Fig. 6

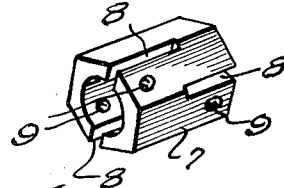
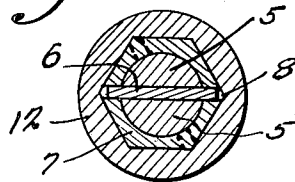


Fig. 4



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FAUCET HANDLE

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2 Claims. (Cl. 287—53)

The present invention relates to new and useful improvements in faucet handles and has for its primary object to provide, in a manner as hereinafter set forth, novel means for firmly securing the handle to the valve stem.

Other objects of the invention are to provide a faucet handle of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of a faucet constructed in accordance with the present invention.

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

Figure 3 is a view substantially similar to Fig. 2 but taken at right angles thereto.

Figure 4 is a view in horizontal section, taken substantially on the line 4—4 of Fig. 3.

Figure 5 is a detail view in perspective of the key.

Figure 6 is a detail view in perspective of the bushing.

Referring now to the drawing in detail, it will be seen that the reference numeral 1 designates generally a faucet comprising a housing 2 having mounted therein a conventional seat and valve head engageable with the seat. The valve head is mounted on the lower end of the rotary stem 3 which rises from the housing 2. The upper end portion of the stem 3 is vertically slotted, as at 4, thereby providing segmental bifurcations 5. The slot 4 is for the reception of a metallic key 6 which, as best seen in Fig. 2 of the drawing, projects beyond the periphery of the stem 3.

Mounted on the upper portion of the valve stem 3 is a hexagonal bushing 7 of suitable metal. Extending into the bushing 7 from the ends thereof are pairs of slots 8 for the reception of the projecting marginal portions of the key 6. The bushing 7 is further provided with pairs of openings 9 in its end portions for the reception of set screws 10. It will be observed that one end portion of the bore of the bushing 7 is larger than the other. Thus, the bushing 7 is adapted to be mounted on two different sizes of valve stems.

The reference numeral 11 designates a handle comprising a socketed hub 12 adapted to receive the bushing 7. The inner periphery of the hub

12 is hexagonal to conform to the bushing 7. Openings 13 are provided in the handle hub 12 through which access to the set screws 10 may be conveniently had with a screw driver.

When assembling the device the key 6 is mounted in the slot 4 in the valve stem 3. The bushing 7 is then mounted on the upper portion of the stem 3, the slots 8 in the lower end portion of said bushing receiving the projecting portions of the key 6. The hub 12 of the handle 11 is then mounted on the bushing 7. The set screws 10 are now tightened by threading said set screws inwardly in the openings 9 in the bushing 7. Thus, the substantially segmental bifurcations 5 are forced toward each other in a manner to firmly clamp the key 6 therebetween. It will be observed that the bushing 7 is split vertically by the slots 8. Thus, when the set screws 10 are tightened in the above described manner the lower portion of the split bushing 7 is expanded for frictionally clamping the hub 12 thereby securing the handle 11 in position.

It is believed that the many advantages of a handle constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A faucet comprising a rotatable valve stem having a slot in one end portion providing spaced bifurcations, a key mounted in the slot and projecting beyond the periphery of the stem, an expansible bushing mounted on said one end portion of the stem and having slots therein for the reception of the projecting portions of the key, a handle including a socketed hub mounted on the bushing, and set screws threadedly mounted in the bushing for clamping the bifurcations on the key and for expanding said bushing in the hub.

2. In a valve including a rotatable stem having a slot in one end portion providing substantially segmental bifurcations, a key mounted in the slot and projecting beyond the periphery of the stem, a hexagonal bushing including comparatively large and small end portions adapted to be mounted selectively on different sizes of stems, said bushing having pairs of slots extending thereinto from its ends for the reception of the projecting portions of the key, a handle including a socketed hub mounted on the bushing and set screws threadedly mounted in the bushing and engaged with the bifurcations for clamping said bifurcations on the key and for expanding the bushing in the hub.

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