

TITLE: IMPROVED SWIVEL TAP

BACKGROUND OF THE INVENTION

The present invention relates to water taps and more particularly to a structurally improved tap which tap can prevent the user's finger from contaminating with germs after hand wash or remaining the germ on the tap to contaminate others who wash their hands successively.

People need to wash their hands after to empty the bowl and/or urination. The process of opening the water supply on the tap of conventional type is to turn the handle at first and then to turn the handle again to shut up the water supply after their hands are washed. This process causes their hands uncleaned because the germs or contaminations still remain on the handle of the tap. This is a great danger to the users to infect the diseases to each other during hand washing especially that the tap locates at a public place. To eliminate such disadvantage, a swivel type of tap is provided as shown in Fig. 1. This tap includes a conventional tap body 1, a swivel handle 2 integrated with a bonnet 3 which is axially connected to a rotatable valve stem 5 by a screw 4. The body 1 includes a water inlet 7 adapted to be connected to a water source, a water outlet 8 opposite to the water inlet 7 and a valve gate 9 defined therebetween and under the valve stem 5 which has a threaded outer periphery rotatably engaged with an internally thread packing 6. When the user presses the

leftside of the handle 2 and rotates it rightward, the valve stem 5 together with the bonnet 6 will move upward and a sealing ring 51 at the lower end of the valve stem 5 leaves away from the valve gate 9 so as to permit the water flowing out of the outlet 8 therethrough. When the user presses the handle 2 leftward after hand washing, the valve stem will move downward to close the valve gate so as to stop the water flow. This type of water tap may reduce the contamination of the handle 5. However, the above problem is not totally solved.

SUMMARY OF THE PRESENT INVENTION

The present invention has a main object to provide a structurally improved swivel tap which has a swivel handle under the tap. When the user finished hand washing to shut up the water flow, the residual water flow can be enough to wash out the contaminations on the handle.

Another object of the present invention is to provide a structurally improved swivel tap in which the swivel handle is always washed together with each time of hand washing. So that the germs and/or any contaminations would no longer be remained on the handle.

The present invention will become more fully understood by reference to the following detailed description thereof when read in accompanying with the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a sectional view to show a swivel water tap of a prior art,

Figure 2 is a perspective view of the present invention,

Figure 3 is a perspective view of the present invention when water is not running,

Figure 4 is a flat view of the present invention, and

Figure 5 is a sectional view of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference to Figs. 2, 3, 4 and 5 of the drawings, the first preferred embodiment 10 of the swivel water tap of the present invention comprises a water outlet 12, a water inlet 14 adapted to be connected to a water source 11 from a lateral side of the tap a faucet body 15 above the water outlet 12, a valve gate 16 defined between the water inlet 14 and the faucet body 15 and a tubular extension 13 extended downward from under the valve gate 16 having threaded inner periphery 131 adjacent an lower end for engaging with a tubular coupler 20 which includes a threaded outer periphery 21 engaged with the threads 131 with a sealing ring 22 positioned therebetween and a threaded inner periphery 23. A valve stem 30 rotatably and axially engages with the coupler 20 and includes a sealing cap 31 at upper end engageable within the valve gate 16, a threaded outer periphery 32 engaged with the threaded inner periphery

23 of the coupler 20 and a threaded recess 33 centrally formed in the lower end for connecting with a bonnet 40 by a screw 34. The bonnet 40 has a swivel handle 41 projected outward from an outer periphery (as shown in Fig. 3, 5) for rotatably operating the bonnet 40 together with the valve stem 30 to slide in the extension 13.

Referring to Figs. 2, 3, 4 and 5, the swivel handle 41 is normally positioned under the water outlet 12 while the tap is shut off. When a user presses a leftside of the handle 41 and rotates it rightward, the valve stem 30 together with the sealing 31 and bonnet 40 move downward so as to permit the water flowing out of the water outlet 12 from the water inlet 14 through the valve gate 16. When the user presses the right side of the handle 41 to rotate it to its original position after an hand washing, the valve stem 30 moves upward and its sealing cap 31 blocks the valve gate 16 so as to shut off the tap. However, the residual water inside faucet body flows out to wash out the handle 41 in order to keep it always clean.

Based on aforesaid improvement, the swivel water tap of the present invention provides a great advantage and unexpected result. Since the swivel handle 41 is washed out after each use of the tap and the user himself of the successive users will no longer be contaminated with germs and/or any contaminations, therefore reducing the infection of diseases.

The specification relating to the above embodiments should be construed as exemplary rather than as limitative of the present invention, with many variations and modifications being readily attainable by a person of average skill in the art without departing from the spirit or scope thereof as defined by the appended claims and their legal equivalents.



I CLAIM:

1. A water tap comprising:

a faucet body, a water inlet adapted to be connecting to a water source from a lateral side of the body, a water outlet under said faucet body, a valve gate defined between said water inlet and said faucet body and a tubular extension extending downward from under said valve gate having a first threaded inner periphery adjacent a lower end;

a tubular coupling means axially engaging with said tubular extension therein including a first threaded outer periphery engaged with the first threaded inner periphery of said tubular extension with a sealing ring disposed therebetween and a second threaded inner periphery in a lower end;

a valve stem rotatably disposed within said tubular coupling means and including a second threaded outerperiphery engaged with the second inner threaded periphery of said tubular coupling means, a sealing means at an upper end engageable within said valve gate and a threaded recess centrally formed in an lower end of the stem;

a bonnet connecting to the threaded recess of said valve stem by means of a screw and including a swivel handle projected outward from an outer periphery thereof, said handle is normally positioned under said water outlet so as to be washed out by residual water from said faucet body when said tap is closed after each opening.