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FAUCET ATTACHED MIXING DEVICE

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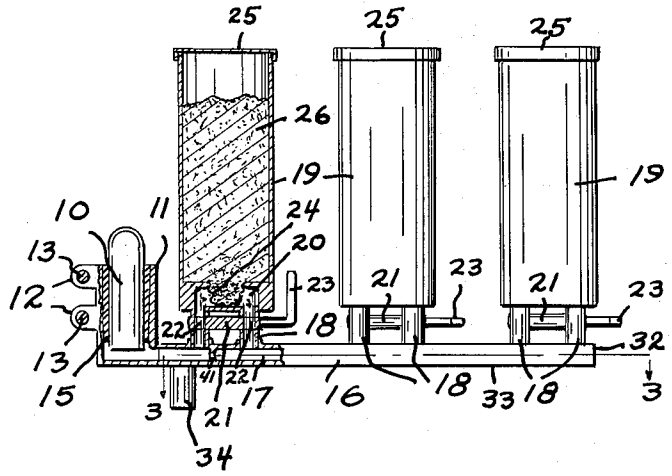


Fig. 1

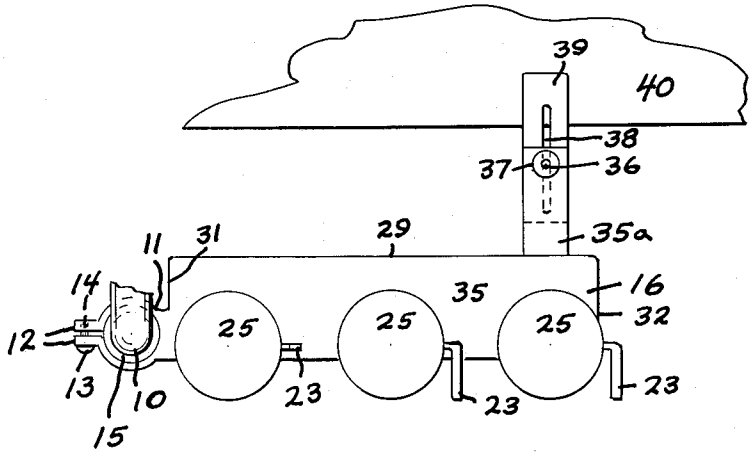


Fig. 2

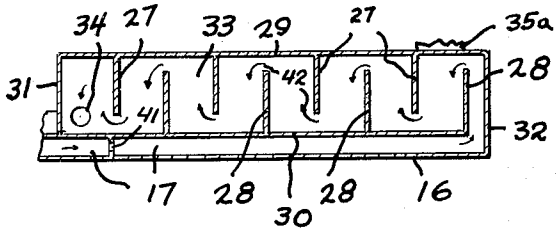


Fig. 3

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FAUCET ATTACHED MIXING DEVICE

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1 Claim. (Cl. 137—268)

My invention relates to a faucet attached device.

An object of my invention is to provide a device which can be conveniently attached to a faucet in a kitchen sink or the like, with the device incorporating an arrangement wherein several containers will communicate to the faucet, with each of the containers containing powdered tea or other substances, which will be mixed with the water from the tap or faucet, so that liquid tea or any other beverage can be obtained directly.

A further object of my invention is to provide an arrangement which will provide a complete mixing effect.

With these and other objects in view, my invention consists in the construction, arrangement, and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claim and illustrated in the accompanying drawings, in which:

FIGURE 1 is a forward elevation of my device as attached to a tap or faucet with portions thereof being taken in cross-section,

FIGURE 2 is a plan view of FIGURE 1, and

FIGURE 3 is a sectional view of FIGURE 2 taken along the lines 3—3 thereof.

In describing my invention I have used the character **10** to designate the end of a faucet, and I have used the character **11** to indicate an end portion of my device which portion **11** is substantially cylindrical as shown and which portion **11** extends into the ears **12** which ears receive the screws **13** threadably engaged at **14** to thereby provide means for firmly clamping the portion **11** against the gasketing sleeve **15** to thereby firmly secure the entire arrangement in position and to provide a water tight joint.

The member **11** communicates to, and is integrally formed with a flat casing **16**, the casing **16** including the passageway **17**, and communicating with the passageway **17** are the tubes **18**, each of which tubes **18** are attached to the various containers **19**, the containers **19** each having the passageways **20** communicating to the tubes **18**.

Received in the tubes **18** are the valve members **21** having the ports **22**, the handles **23** being attached to the valve members **21**.

The character **24** designates cup shaped screens positioned within the passageways **20** and attached within the containers **19** as shown.

Each of the containers **19** include the lids **25** threadably engaged with the tops of the containers, and each of the containers can contain a separate granular or powdered substance **26** which can be tea or any other substance which when mixed with water will provide the desired beverage.

The casing **16** (see FIGURE 3) includes a series of various partitions **27** and **28** extending integrally from the walls **29** and **30**, the characters **31** and **32** indicating end walls, and communicating through the bottom wall **33** is a cylindrical discharge spout **34**.

The character **35** indicates the top wall of the casing **16**, and secured to the wall **29** is a strap **35***a* through which passes the stud **36** which threadably engages the knurled nut **37** with a suitable lower nut being attached to the stud **36**, the stud **36** passing through the slot **38** provided

in the further strap **39**, this arrangement thereby providing an adjustable arrangement which will assist in supporting the entire unit from the upper edge **40** of the sink.

The character **41** indicates an opening of smaller size than the passageway **17**.

The device operates in the following manner. Assuming that each of the containers **19** contains a different type of powder or substance to be mixed with the water, it will be noted that any desired water mixture can be made by merely turning the handle **23** to the vertical position as shown in FIGURE 1, whereupon the ports **22** will be opened to allow the water from the tap **10** to flow through the passageway **20**, and through the screen **24** which causes a mixing with the substance **26**, the opening **41** providing a slight retarding effect to insure that the water will flow more readily through the bottom of the container; the water then passing about the various partitions **27** and **28** in the direction of the arrows **42** to provide a longer passageway which will thereby provide a more complete mixing effect, which mixed liquid will then pass through the spout **34** to the desired vessel.

When all of the handles **23** are horizonally positioned, the water from the tap only will pass through the spout **34**.

It will thus be noted that I have provided the advantages mentioned in the objects of my invention with further advantages being apparent.

Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claim any modified forms of structure or use of mechanical equivalents which may be reasonably included within its scope.

I claim as my invention:

A faucet attached mixing device comprising an elongated hallow casing, a plurality of containers communicating with said casing, each of said containers being adapted to receive a water-soluble substance, a clamp attached to said casing adapted to be attached to a faucet, said clamp having a tubular portion communicating to said casing, a pair of tubes communicating from said casing to each of said containers, valves positioned within said tubes for controlling passage of water from said casing to said containers, said containers including screens positioned at the lower portions thereof, passageways in said containers communicating with said tubes, said screens being positioned across said passagesways, said casing including a main passageway, said main passageway having a partition adjacent to said faucet, said partition having a restricted opening, said casing including side walls and end walls, said casing including a plurality of partitions alternately attached to one of said end walls and to said main passageways for providing a tortuous passageway for mixed water passing through said containers, a support member attached to said casing adapted to be supported by a sink portion, a discharge spout communicating to said casing and positioned at the terminal point of flow of said mixed water, for discharging said mixed water after passing through said tortuous passageway.

References Cited by the Examiner

UNITED STATES PATENTS

2,120,774	6/1938	Belmont	239—317
2,421,372	6/1947	Burke	239—317
2,604,446	7/1952	Palmer	137—268
2,885,271	5/1959	Kersh	137—268
2,960,999	11/1960	Lacy	137—564.5

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