Feb. 8, 1938. H. G. RICHTER ET AL 2,107,876

FOAM WIPER

Filed Aug. 2, 1937

Fig. 1

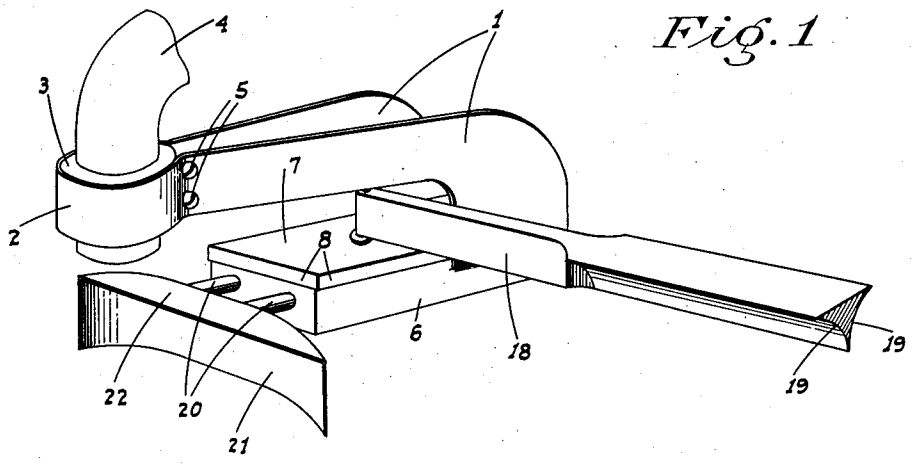
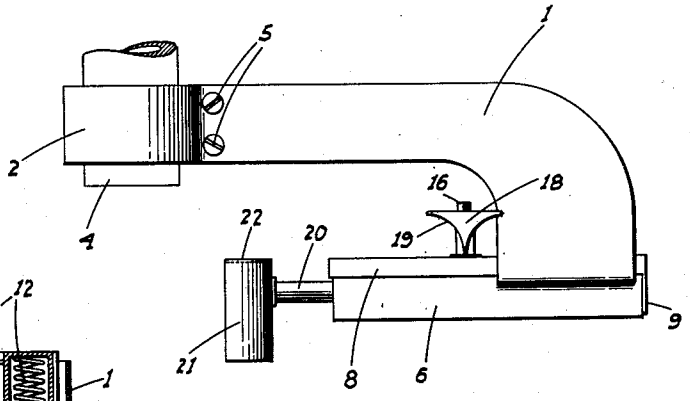


Fig. 2



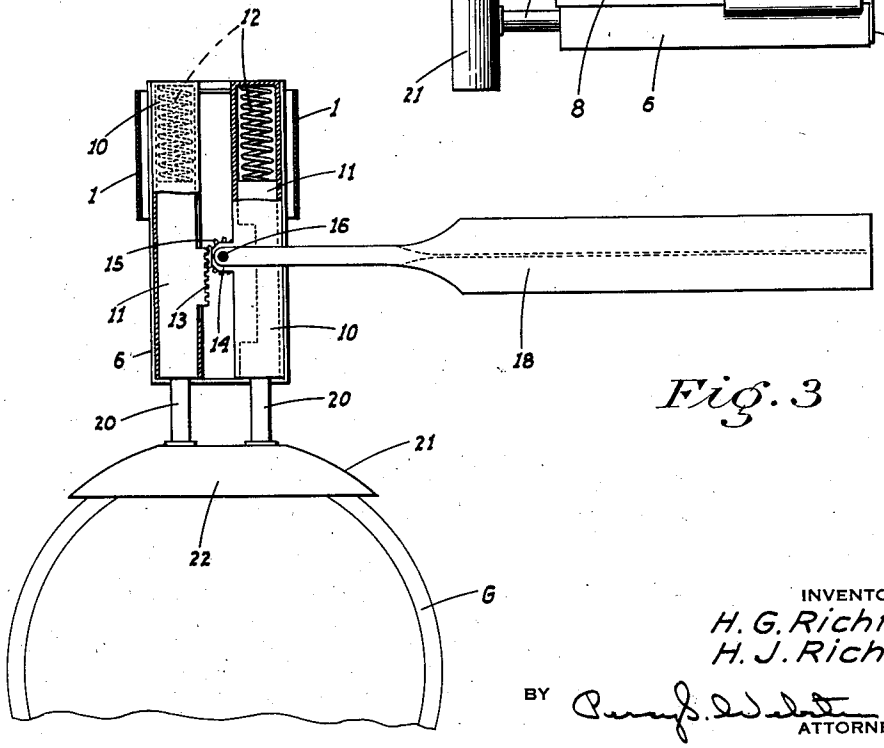


Fig. 3

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FOAM WIPER

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11 Claims. (Cl. 225—8)

This invention relates generally to an attachment for a beer faucet of the type used in connection with dispensing draught beer; the invention being directed particularly to a device for removing the excess foam from draught beer as drawn into a glass.

Heretofore it has been the practice of bartenders to hold the beer glass in one hand beneath the beer faucet, to release the beer faucet valve with the other hand until the glass is full and to then pick up a separate and often unsanitary "beer spoon" with said other hand and remove the excess foam from the glass. It often required a repetition of this operation in order to properly fill the glass with beer. Also, in many instances the bartender removed more foam than necessary as the "beer spoon" would dip into the glass below the rim.

It is therefore the principal object of our invention to provide a device for attachment to a beer faucet which, during the beer dispensing operation, will automatically wipe the excess and undesired foam from the glass; actuation of such device being accomplished by slight forward and backward motion of the beer glass as held beneath the beer faucet during the dispensing operation.

As a further object of our invention, it is our purpose to provide a device of the character described which is easy to operate and which operates with very slight forward and backward movement of the glass.

An additional object of our invention is to provide a device of the character described in which substantially all of the working parts are enclosed and which is thus quite sanitary.

It is also an object of our invention to provide a foam wiper of the character described which when in operation will tend to deflect the excess foam downward and into the usual foam receiving tray below the beer faucet.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purpose for which it is designed.

These objects we accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawing similar characters of reference indicate corresponding parts in the several views:

Figure 1 is a perspective view of our device as mounted in connection with a beer faucet.

Figure 2 is a side elevation of the device as mounted in connection with a beer faucet.

Figure 3 is a plan view with housing lid removed and partly in section.

Referring now more particularly to the characters of reference on the drawing, the device comprises a pair of horizontally disposed L-shaped arms 1 disposed in spaced relation and having a substantially circular securing clamp 2 formed in connection with one end thereof. A resilient circular gasket or collar 3, preferably made of rubber, is disposed within the clamp 2 and engages about a beer faucet 4 in the manner shown. Tightening bolts 5 extend between the spaced arms 1 at a point adjacent the clamp 2 and are used to tightly engage the clamp 2 and gasket 3 about the beer faucet 4. These arms, when mounted in connection with a beer faucet, project rearwardly therefrom as shown.

A rectangular housing 6 is disposed between and projects forwardly from the arms 1, the lower ends of said arms being fixedly secured to the sides of the gasket, or if desired the sides of the housing and the arms may be formed integral. The housing 6 is initially open at the top and rear end. A cover 7 is mounted on the housing and is formed with depending flanges 8 along its side and front edges. At its rear edge the cover is formed with a relatively long depending flange 9 forming a closure for the initially open rear end of the housing 6.

A pair of elongated metallic cases 10, rectangular in section, are disposed within the housing 6 lengthwise thereof and in spaced relation as shown. Metallic bars 11, likewise rectangular in cross section, are slidably disposed within the cases 10. These bars are shorter than the cases and compression springs 12 are disposed between the rear ends of the bars 11 and the rear ends of the cases. One of the bars 11 is formed with a rack 13 along its inner side, the corresponding side of the case 10 being cut away to permit projection of the rack teeth therethrough. A horizontal ear 14 is struck out from the inner side of the other case 10 and forms the upper journal for a pinion 15 pivoted between the ear 14 and the bottom of the housing 6.

The pinion 15 is formed with an axially extended pin or stub shaft 16 which projects upwardly through an opening in the cover 7. A relatively long foam wiping blade 18 is fixed at its inner end on pin 16 and projects radially therefrom. This foam wiping blade is formed with downwardly and inwardly curved faces 19 on opposed sides for the purpose hereinafter described.

Parallel rods 20 are mounted in connection with the forward ends of bars 11 and slidably project

through the adjacent ends of cases 10 and the end of housing 6. A beer glass engaging head 21 having a concave outer face is secured to the outer ends of rods 20, a glass locating lip 22 being formed in connection with and projecting outwardly from the upper edge of the head, on a level just below the lower edge of the blade 18. The rods 20 are of such length that when a beer glass is disposed with one side against the concave head, the glass will be disposed in proper beer receiving position beneath the beer faucet 4.

Operation

In use our foam wiping device functions in the following manner:

The bartender takes the beer glass G in one hand and places the same with one side against the concave head 21 and with the upper edge abutting against the inner surface of lip 22. With the other hand the bartender controls the beer faucet valve and upon actuation of the valve (not shown) beer flows from faucet 4 into the glass. When sufficient beer has been dispensed into the glass to cause foam to rise above the upper edge of the glass, the bartender closes the beer faucet valve and then moves the beer glass forward a short distance causing rods 20 to be moved inward with resultant inward or rearward movement of bars 11 against the compression of springs 12. This causes the rack 12 to rotate pinion 14 resulting in the foam wiping blade 18 swinging through an arc of approximately 180° or from its normal position to a like position on the other side of the device. Movement of the glass backward permits the blade to swing back to its normal position. With such arcuate movement of the foam wiping blade 18, the downwardly and inwardly curved faces of the blade wipe across the top of the beer glass and remove all excess foam, the curved faces 19 deflecting the foam downward into the foam receiving tray below the beer faucet.

After the initial excess foam removing operation the bartender can then dispense more beer into the glass and again repeat the foam removing operation if necessary. As the foam wiping blade 18 sweeps across the beer glass close to the upper rim thereof the removal of all excess foam is assured and without the removal of the desirable foam which remains below such rim. By employing our novel device the number of movements required to properly fill a beer glass is materially reduced as the bartender need not remove his hands from either the beer glass or beer faucet valve as is now necessary when a separate "beer spoon" is used.

From the foregoing description it will be readily seen that we have produced such a device as substantially fulfills the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

Having thus described our invention, what we claim as new and useful and desire to secure by Letters Patent is:

1. A foam wiper adapted for use with a drink dispensing faucet, said wiper comprising a support adapted to be mounted adjacent a faucet, a movable glass engaging element mounted in connection with the support, a foam wiping blade mounted on the support for movement across the top of the glass engaging the element, and means between the element and blade to so move the latter upon movement of said element.

2. A device as in claim 1 including a glass locating member on the glass engaging element whereby the rim of a glass engaging the element will be disposed in a predetermined plane below the path of movement of the blade.

3. A foam wiper adapted for use with a drink dispensing faucet, said wiper comprising a support adapted to be mounted adjacent a faucet, a movable element mounted on the support and adapted for engagement with a glass, a foam wiping blade pivoted on the support for swinging movement in a horizontal plane and above the glass engaging element, and means between the element and blade to so swing the latter upon movement of said element.

4. A device as in claim 1 in which the foam wiping blade is formed on one side with a downwardly and inwardly curved foam deflecting face.

5. A foam wiper adapted for use with a drink dispensing faucet, said wiper comprising a housing adapted to be mounted adjacent a faucet, a cooperatively engaged rack and pinion mounted in the housing, a foam wiping blade disposed exteriorly of the housing and mounted in connection with the pinion for swinging movement, an element secured to the rack and slidably projecting through the housing, and a glass engaging head on the outer end of the element; the head being disposed to engage a glass and the wiping blade being disposed for swinging movement across the top of a glass so disposed.

6. A device as in claim 5 including spring means in the housing and engaging the rack whereby to urge the outer end of the connected element in a direction away from the housing.

7. A foam wiper adapted for use with a drink dispensing faucet, said wiper comprising a housing adapted to be mounted adjacent a faucet, a rack slidably mounted in the housing, a rod secured to the rack and slidably projecting through the housing, a head on the outer end of the rod adapted to engage a glass, a spring in the housing and engaging the rack, said spring urging the rack in a direction to advance the outer end of the rod away from the housing, a pinion journaled in the housing and cooperating with the rack, and a foam wiping blade disposed exteriorly of the housing and mounted in connection with the pinion for swinging movement across the top of the glass disposed in engagement with the head.

8. A foam wiper adapted for attachment to a drink dispensing faucet, said wiper comprising an L-shaped supporting arm, a clamp on one end of the arm adapted for engagement with a faucet, a housing mounted on the other end of the arm in such position to be disposed to one side of and below the faucet to which the device is adapted, a foam wiping blade pivoted on the housing for swinging movement beneath the faucet, a slidable element projecting from the housing in the direction of the faucet, a head on the outer end of the element for engagement with a glass located beneath the faucet, and means mounted in the housing and cooperatively connected between the element and blade to effect swinging of the blade upon sliding movement of said element.

9. A foam wiper adapted for attachment to a drink dispensing faucet, said wiper comprising a pair of spaced L-shaped supporting arms, a faucet engaging clamp formed on and extending between one end of the arms, a housing formed

in connection with the other end of the arms in such position to be disposed to one side of and below the faucet to which the device is adapted, a foam wiping blade pivoted on the housing for swinging movement beneath the faucet, a slidable element projecting from the housing in the direction of the faucet, a head on the outer end of the element for engagement with a glass located beneath the faucet, and means mounted in the housing and cooperatively connected between the element and blade to effect swinging of the blade upon sliding movement of said element.

10. A device as in claim 1 in which the support comprises a housing, and said last named means comprises a pair of spaced bars slidably disposed in the housing in parallel but spaced relation, axial rods fixed with the bars and slidably projecting through the housing to connection at their outer ends with the head, springs in the housing engaging the bars and normally urging the same in a direction to advance the outer ends of the rods away from the housing, a rack formed along the inner side of one bar, and a pinion journaled in the housing between the bars and cooperating with the rack, said pinion being operatively connected with the blade to effect movement of the blade with rotation of the pinion.

11. A foam wiper adapted to be mounted adjacent a drink dispensing faucet, said wiper comprising a movable glass engaging element, a foam wiping blade mounted for movement across the top of a glass engaging the element, and means between the element and blade to so move the latter upon movement of said element.

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