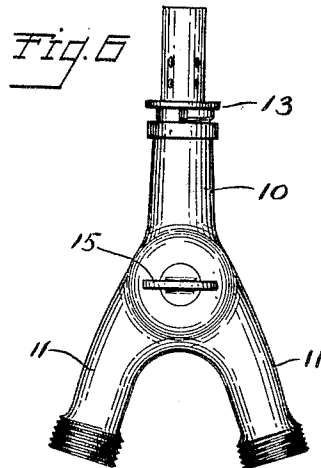
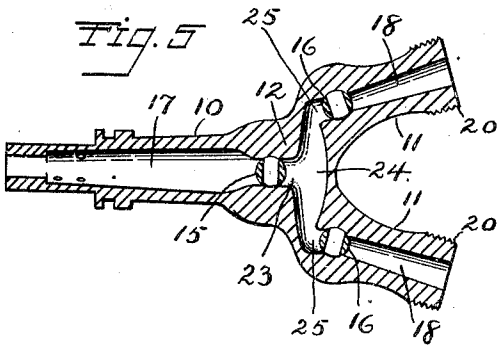
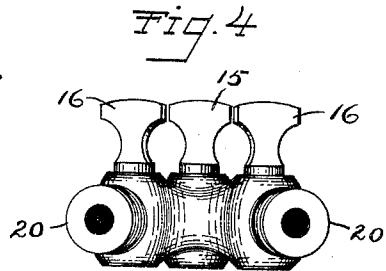
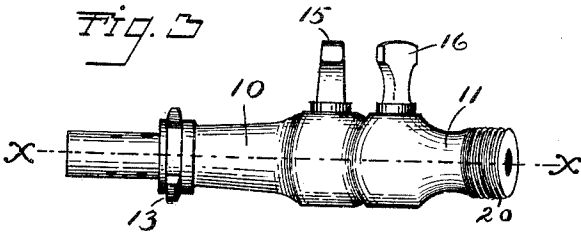
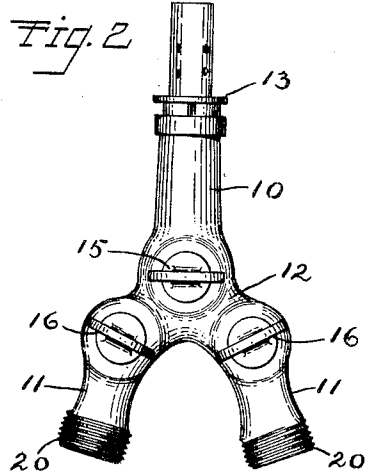
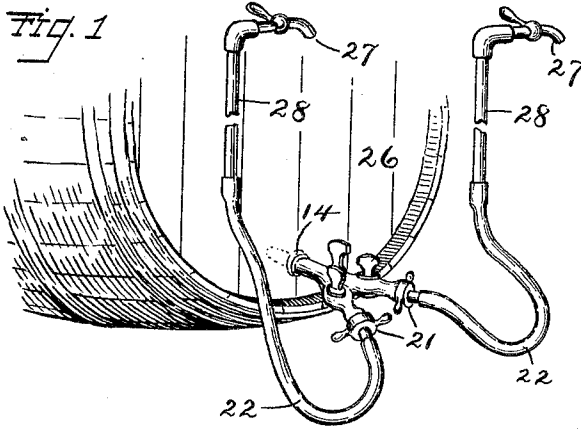


H. J. MORRIS.
BEER COCK.
APPLICATION FILED JULY 1, 1913.

1,099,713.

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WITNESSES:

S. H. Clarke
R. W. Edwards

INVENTOR
Hilary J. Morris
By Louis W. Schmidt
ATTY.

UNITED STATES PATENT OFFICE.

HILARY J. MORRIS, OF NEW BRITAIN, CONNECTICUT.

BEER-COCK.

1,099,713.

Specification of Letters Patent.

Patented June 9, 1914.

Application filed July 1, 1913. Serial No. 776,793.

To all whom it may concern:

Be it known that I, HILARY J. MORRIS, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Beer-Cocks, of which the following is a specification.

My invention relates to improvements in beer cocks, and the object of my improvement is to produce a unitary structure having an inlet connection suitable for connecting in an ordinary manner to the beer barrel and having a duplex outlet suitable for delivery to two separate taps by means of the usual leads of conductors and suitable for permitting of cleaning the said leads or conductors without disconnecting the said inlet connection from the barrel.

In the accompanying drawing:—Figure 1 is a perspective view of part of a barrel provided with my improved cock and part of the delivery leads or conductors. Fig. 2 is a plan view of the cocks. Fig. 3 is a side elevation of the same. Fig. 4 is a front elevation of the same. Fig. 5 is a sectional view on the line *x x* of Fig. 3. Fig. 6 is a plan view of a modification of the cock.

My improved beer cock comprises a body in the form of a Y having an inlet or stem 10 at the inner end and a pair of lateral branches 11 extending laterally and outwardly therefrom, all of which meet at a common junction 12. The stem 10 is provided at the inner end with a key connection 13 of ordinary structural formation suitable for making connection in the usual manner with an outlet terminal 14 of standard construction provided in the barrel 26. The key connection 13 mentioned for connection with the standard fitting 14 comprises as shown a partial or interrupted thread, suitable for making the desired connection by being inserted in the said fitting 14 longitudinally and secured therein by being turned through an angle that is appreciably less than a semi-revolution, and actually is approximately a third of a complete turn. This feature is of importance in view of the duplex arrangement of the branch pipes as thereby twisting and interwinding of the branch pipes is avoided in making a change in the connection, as from one barrel to the other. The ends 20 of the branches 11 are threaded in the usual manner to receive a coupling 21, which latter is

provided with means for receiving one end of a flexible conductor, as a rubber tube, the other end of which is connected by piping 28 each to an individual delivery cock 27.

In the stem 10 there is a shut off cock 15 controlling the flow therein and which is positioned between the inner end 13 and the junction 12. The lateral branches 11 may be provided with individual cocks 16 controlling the flow in the said branches, as shown in Figs. 1, 2, 3, 4 and 5, or the individual cocks 16 may be omitted as in the modification shown in Fig. 6. That is, the stem 10 is provided with a bore or passage 17 which is controlled by the cock 15 and the branches 11 are each provided with a bore or passage 18, and which latter may be controlled by individual cocks 16.

As described, the cock 15 in the stem 10 is positioned inwardly from the junction 12 and inwardly from the outer end 23 of the passage 17, which terminates in the said junction 12. At the junction 12 I provide a cross connecting passage 24 cross-connecting the said outer end 23 of the passage 17 with the inner ends 25 of the passages 18. The cross-connecting passage 24 serves to connect the main inlet passage 17 with the branch passages 18 so that the inlet flow to both branch passages 18 is controlled by the cock 15 and at the same time serves to interconnect the passages 18 in the branch 11 and independently of the said cock 15, and there is distinct utility in both of these features. For instance, and in the first place by manipulating a single cock body, two separate delivery cocks can be connected to and disconnected from the supply. This in itself is a convenience. And then, there are advantages in having the two taps draw from one barrel over the ordinary arrangement of having the two separate taps connected to two distinct sources of supply and that is primarily in the fact that the quality of the product will be uniform from the two taps, notwithstanding that there may be considerable differences in the amounts that will be drawn from the two. It is obvious that this will not be the case with the two taps connected to distinct sources of supply. There are also advantages in the quality of the product in drawing heavily from one supply and when the supply is exhausted to change over to a fresh supply, as by using a plurality of

outlets from one supply, over having the supply changes for the several outlets different, the new connection for the one being made at relatively short intervals and for the other at relatively long intervals and vice versa.

The advantage in having the branch passages 18 cross-connected independent of the main cock 15 resides in the fact that the delivery system, part of which comprises the rubber tubes 22, can be thoroughly cleaned by a flow of water therethrough, and without disconnecting the cock body or the stem 10 from the barrel 26. This is effected by closing the cock 15 in the stem 10 and connecting one of the delivery cocks 27 to a source of water supply, as by means of a rubber hose or nipple slipped over the end of the same. Then by opening the delivery cocks 27 and the cocks 16 if these are provided, the flushing of the pipe system may be effected thoroughly and without restriction of any kind. The facility with which the flushing of the pipe can be effected in the manner described is an important feature of my invention.

I claim as my invention:—

A beer cock having a generally Y shaped

body the said body being a unitary structure and comprising a stem having a bore, one end of the said stem being provided with means for being connected with a fixture in the barrel, and a pair of branches extending outwardly from the other end of the said stem and each provided with a bore, the junction of the said stem and branches having a passage connected by its middle with the said bore in the stem and connected by its ends with the said bores in the branches, and the said stem being provided with a cock plug adjacent the said junction and extending across the said bore in the stem, whereby a free passage is provided from one branch to the other and independent of the body portion of the said stem and which is suitable for permitting cleaning of the said branches by a flow of water therethrough and the said means for being connected with a fixture in the barrel comprising an interrupted thread permitting of making connection with the said fixture by a partial revolution of the beer cock.

HILARY J. MORRIS.

Witnesses:

SHEFFIELD H. CLARKE,
ROGER W. EDWARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."