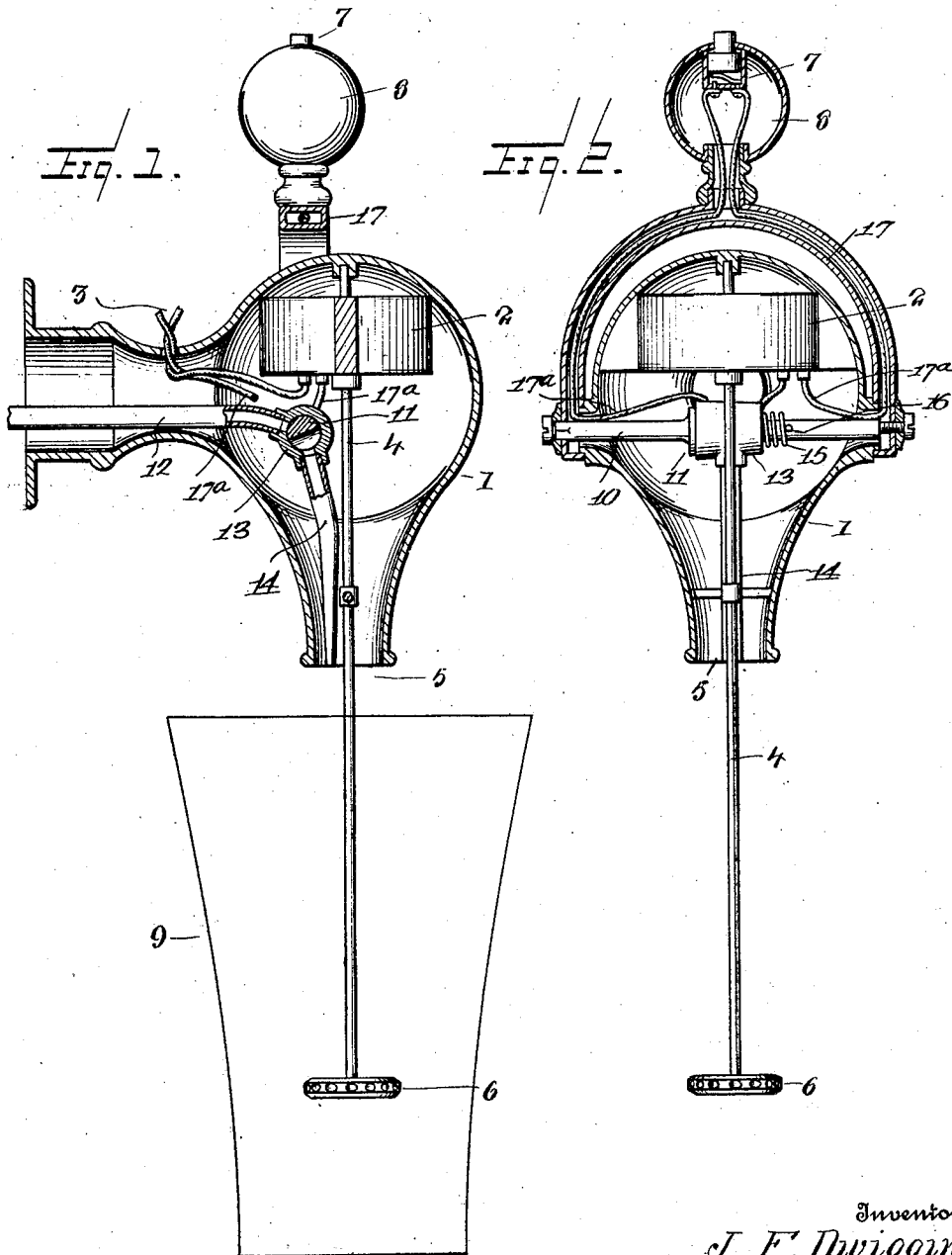


J. F. DWIGGINS.
MIXING DEVICE FOR SODA FOUNTAINS.
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1,115,518.

Patented Nov. 3, 1914



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN FRANK DWIGGINS, OF PETERSBURG, TENNESSEE.

MIXING DEVICE FOR SODA-FOUNTAINS.

1,115,518.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN FRANK DWIGGINS, a citizen of the United States, residing at Petersburg, in the county of Lincoln and State of Tennessee, have invented new and useful Improvements in Mixing Devices for Soda-Fountains, of which the following is a specification.

This invention relates to an improved attachment for soda fountains and particularly to a mixing device in which the various ingredients used in making up the particular drink will be automatically mixed in the glass during their delivery from the fountain to the glass, thereby avoiding loss of time incident to the usual hand mixing and additionally insuring a more perfectly mixed drink.

The invention in its preferred form of details will be described in the following specification, reference being had particularly to the accompanying drawings, in which:

Figure 1 is a sectional view illustrating the application of the improvement to an ordinary soda fountain dispensing process. Fig. 2 is a section of the same taken at right angles to Fig. 1.

In carrying out the present invention I mount within the faucet 1, preferably above the outlet port therefrom, a motor 2 which may if desired be energized from ordinary lamp socket connection 3 or any other suitable way. The motor is preferably arranged so that the armature shaft 4 thereof will extend vertically of the faucet delivery end, and said shaft is extended so that the lower end thereof projects below the mouth or delivery end 5 of the faucet. On the lower end of the shaft 4 is arranged a mixing wheel 6 which latter may be of any desired type and preferably in the form of a disk having the edges thereof formed with small oval notches in such manner that the force of the mixing disk upon the liquid is downward rather than in the upward direction.

Journalled transversely within the faucet 1 is the shaft 10 formed midway of its ends with the valve 11 which latter has connection with the delivery pipe 12 leading from the fountain, the valve being rotatably mounted within the casing 13 from which depends the discharge spout 14. Surrounding the shaft 10 and bearing against one end of the casing 13 is a coil spring 15 which has its opposite ends bearing against the cross

pin 16, to retain the casing properly positioned upon the valve. Fixed on the opposite ends of the shaft 10 is a hollow yoke 17 for rotating the shaft which controls the discharge of fluid from the fountain. The yoke is formed with a handle 8 in which is mounted the switch element 7 of the motor circuit, the conductor wires 17^a extending therefrom through the yoke, to the motor 2 as shown. Manifestly by reason of this construction it will be noted that when the handle 8 is grasped in lowering the yoke 17 for controlling the valve 11 regulating the delivery of the fluid from the fountain through the faucet, the switch element 7 may be actuated to operate the motor independently of or simultaneously with the discharge of the fluid, it being desirable that the motor should be energized slightly in advance of the delivery of certain kinds of fluids from the faucet for the purpose of insuring even and uniform mixing with all kinds of syrups or the like. The shaft 4 extends a sufficient distance below the mouth of the faucet so that the mixing disk 6 will be properly positioned within the glass or other container 9 when the latter is arranged below the faucet to receive the fluid, and from this arrangement it will be obvious that upon operating the handle 8 to deliver the fluid to the faucet the material in the glass will be thoroughly mixed by the rapid rotation of the mixing disk under the influence of the motor.

While I have shown and described what I now consider the preferred form of my invention, it is desired to be understood that I contemplate no limitation with respect to the character of the motor, the character of the disk, or the character of the switch, as any usual or preferred types of devices for these functions may be employed.

What I claim is:—

1. The combination with a soda fountain faucet having a valve controlled discharge element connected therewith, of a motor operated mixer comprising a disk and rod connected to said disk and extending within the faucet whereby to support said disk below and in a line with said faucet, and means for operating said motor independently of or simultaneously with the discharge of the fluid.

2. The combination with a soda fountain faucet having a discharge valve operating

shaft journaled transversely therein, a
handle fixed on the ends of the shaft for
controlling said valve, of a mixer compris-
ing a motor arranged within the faucet, a
5 rod depending therefrom below and in a
line with said faucet, and a disk on the
lower end of said rod, and means carried by
said handle for operating said motor inde-

pendently of or simultaneously with the op-
eration of said valve.

In testimony whereof I affix my signature
in presence of two witnesses.

J. FRANK DWIGGINS.

Witnesses:

H. B. MARSH,
W. L. MOORE.