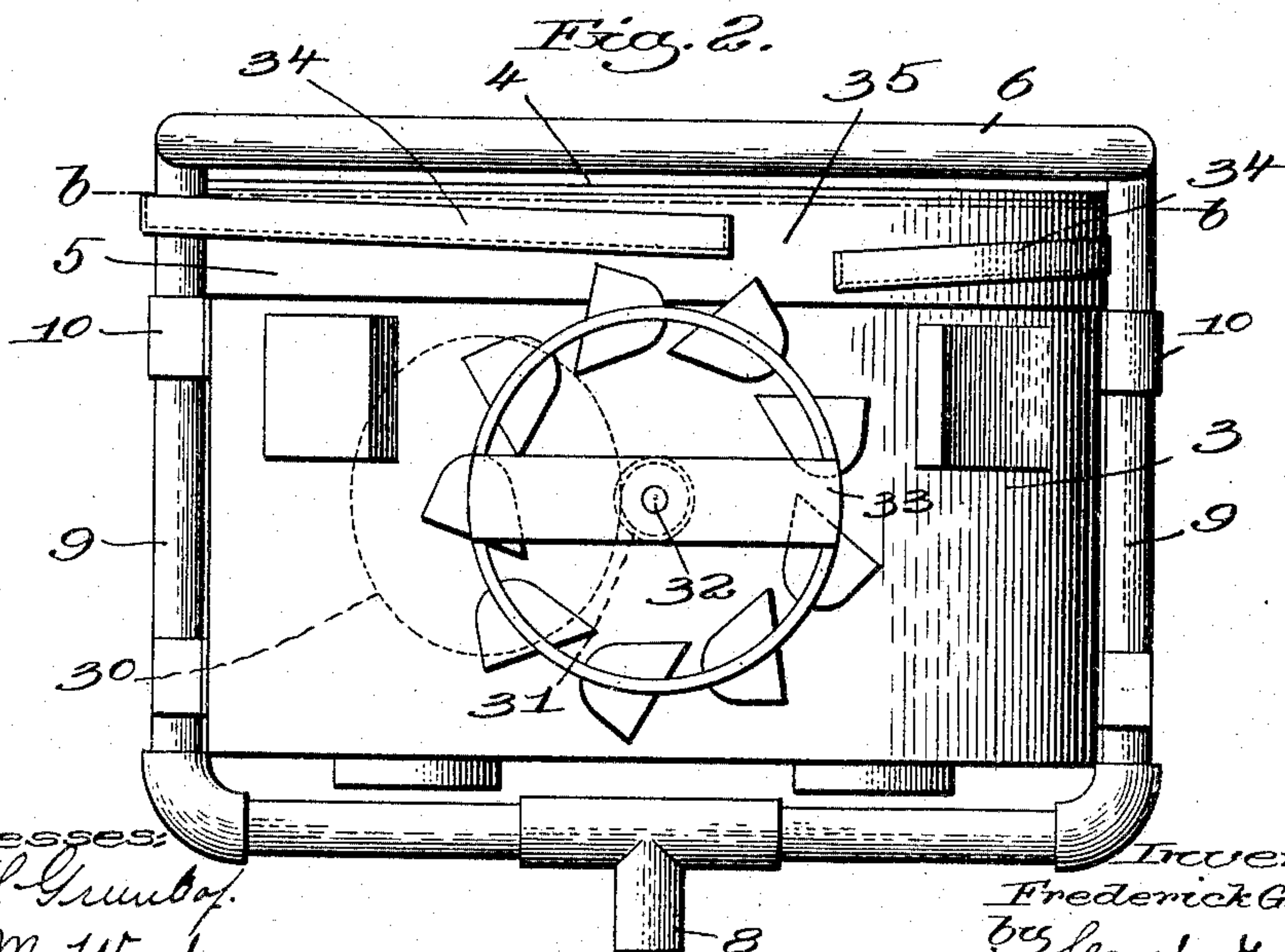
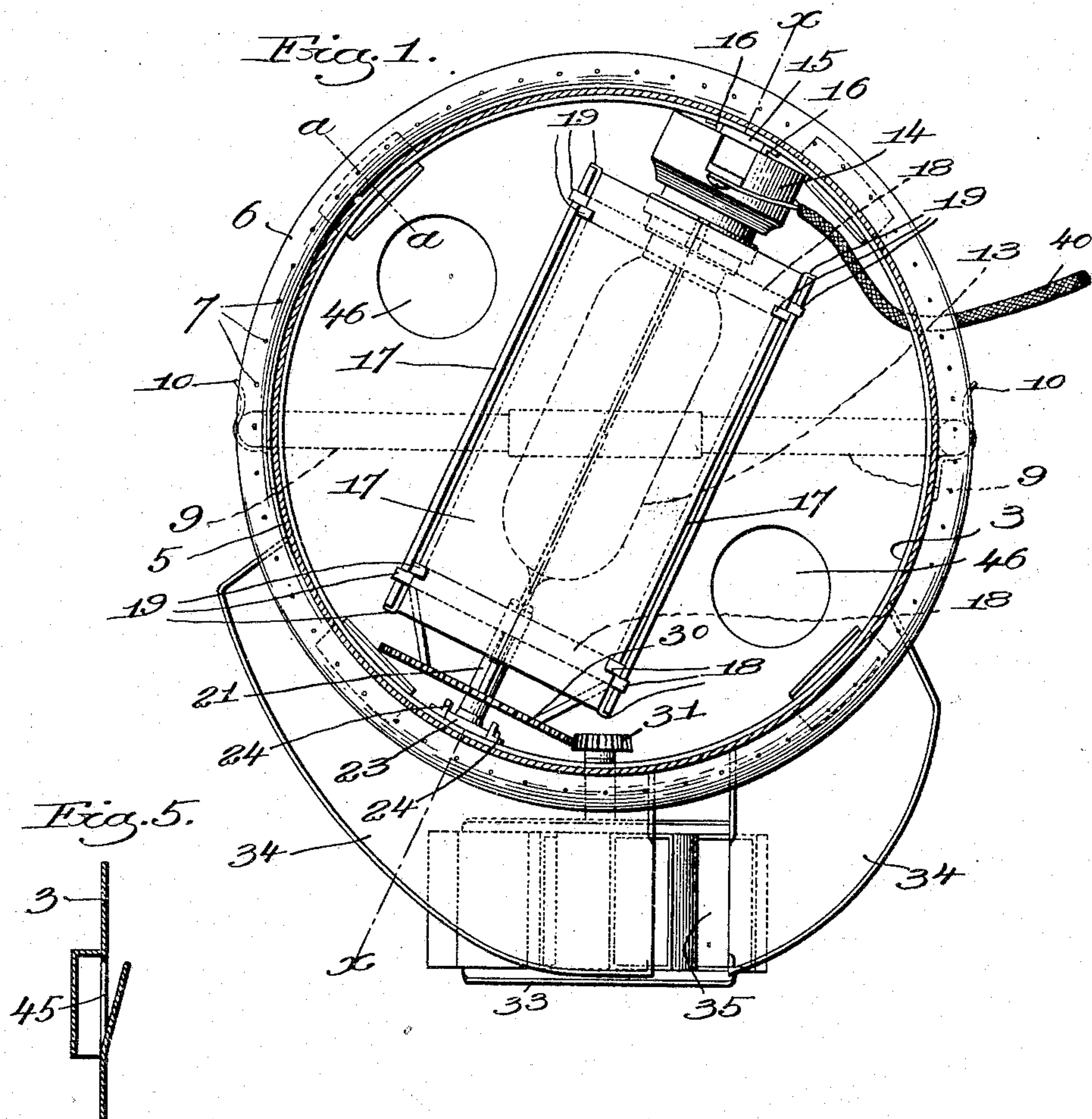


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ILLUMINATED FOUNTAIN.  
APPLICATION FILED AUG. 31, 1908.

947,241.

Patented Jan. 25, 1910.

2 SHEETS—SHEET 1.



Witnesses:  
Fred. S. Grumbay,  
Joseph M. Ward.

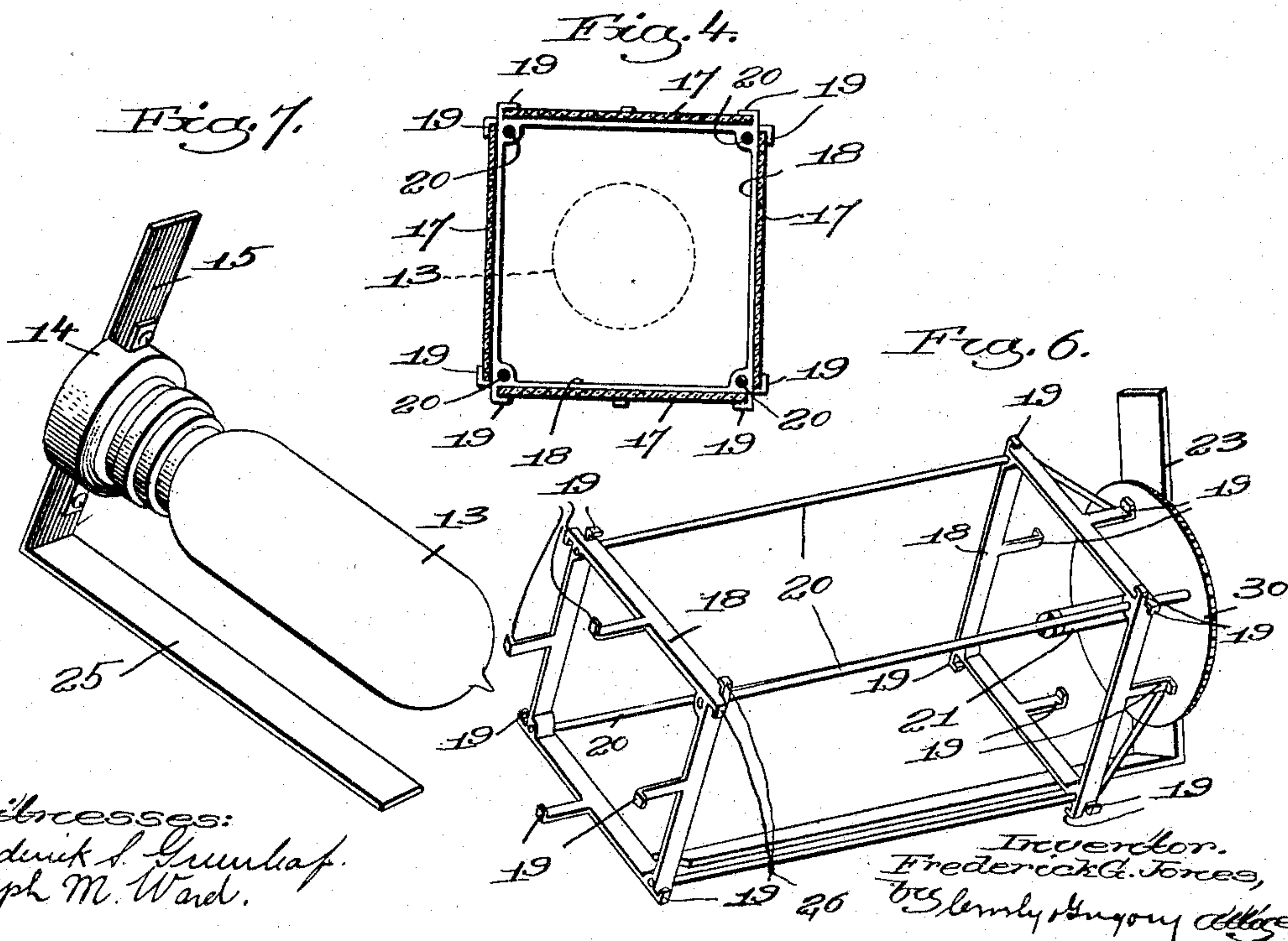
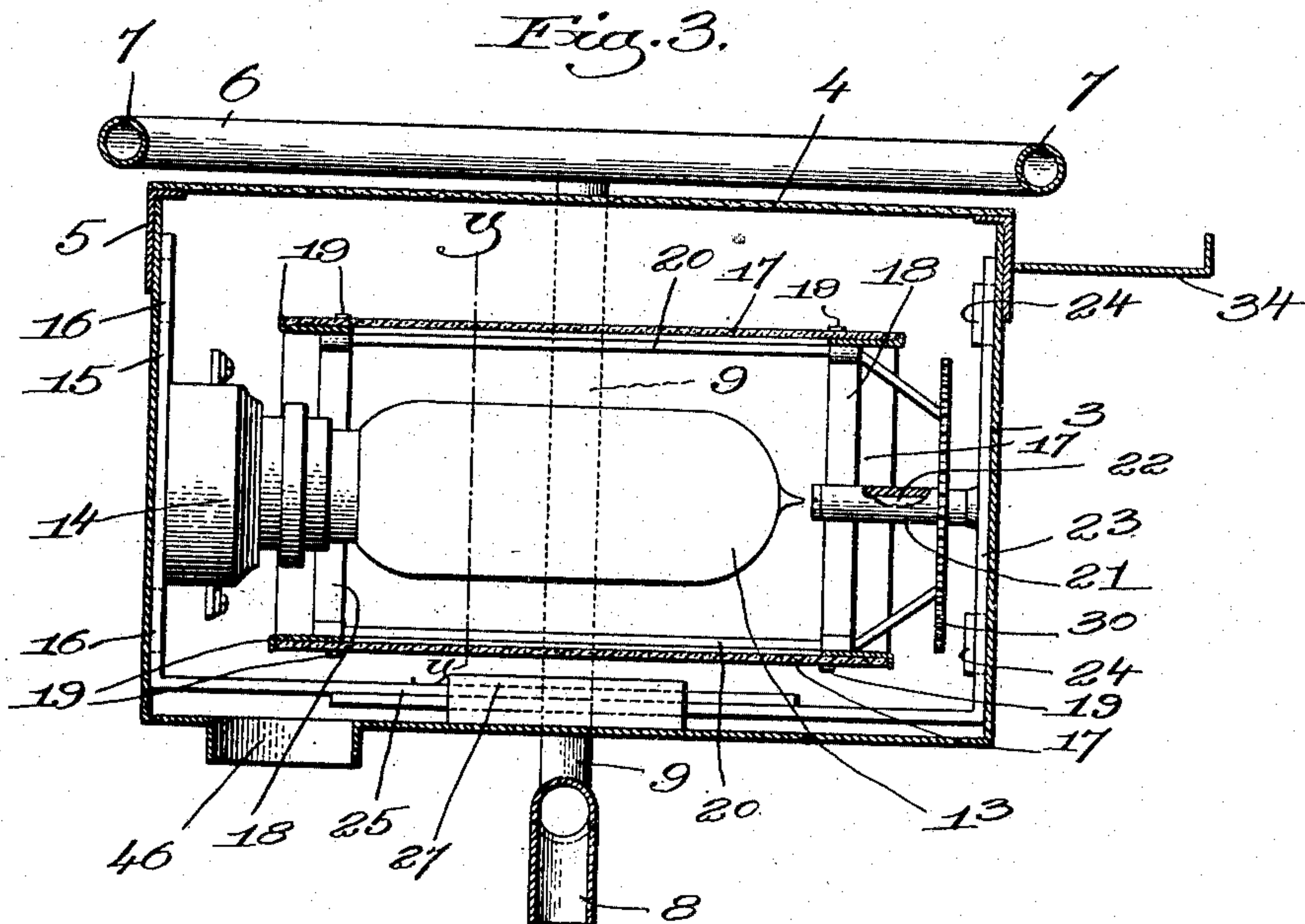
Inventor.  
Frederick G. Jones,  
by Henry H. Hays.

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Frederick S. Grunlap.  
Joseph M. Ward.

Inventor.  
Frederick G. Jones,  
by Glenlyng Jones atty.



# UNITED STATES PATENT OFFICE.

FREDERICK G. JONES, OF EAST LEXINGTON, MASSACHUSETTS.

## ILLUMINATED FOUNTAIN.

947,241.

Specification of Letters Patent.

Patented Jan. 25, 1910.

Application filed August 31, 1908. Serial No. 451,059.

*To all whom it may concern:*

Be it known that I, FREDERICK G. JONES, a citizen of the United States residing at East Lexington, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Illuminated Fountains, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to illuminated fountains and has for its object to provide such a fountain which is inexpensive to manufacture, which is simple in construction and has comparatively few parts that can get out of order when in use.

A further object of the invention is to provide a novel construction whereby the movement of the color screen through which the light is projected on to the fountain or spray is secured by means of the waste water as it draws away from the fountain, thus obviating the necessity of any special outside agency for moving said screen.

The features wherein my invention resides will be more fully hereinafter described and then pointed out in the claims.

In the drawings Figure 1 shows a fountain embodying my invention, said figure being a section through the casing on the lines *b-b*, Fig. 2, but showing the spray ring in place; Fig. 2 is a side view thereof; Fig. 3 is a section on the line *x-x*, Fig. 1; Fig. 4 is a section through the color screen on the line *y-y*, Fig. 3; Fig. 5 is a section through the casing on the line *a-a*, Fig. 1; Fig. 6 is a view showing the supporting-frame for the color screen removed from the casing; Fig. 7 is a similar view of the light and its supporting means detached from the casing.

My improved illuminated fountain contains the elements usually contained in illuminated fountains; that is, it contains a spraying device for delivering water in the form of a spray; a lamp, a color screen interposed between the lamp and the spray, and means to cause the lamp and the color screen to have a movement relative to each other whereby different portions of the color screen are brought successively between the lamp and the spray.

In my improved fountain, the light and color screen are confined within a casing which is secured to and supported by the spray device so that the apparatus consti-

tutes a self-contained apparatus which is readily portable and which can be applied to any pipe, for the spray device is so constructed that it can be screwed or secured to any water pipe. The casing which contains the light and color screen is shown at 3 and the spray device is shown as comprising a spray ring 6 having jet apertures 7 therein and the delivery pipes 9 adapted to deliver water to said ring, said pipes both being connected to the connection 8 which is adapted to be applied to the end of any water pipe. The casing 3 may be secured to the spray device in a variety of ways, and as one convenient way I have shown said casing as of a size to fit within the space bounded by the pipes 9, the spray ring 6 and the connection 8 and as provided with the spring clips 10 which are adapted to embrace the pipes 9. The casing is thus readily detachable from the spray device and yet at the same time it is supported thereby. The casing is open at its top and the open top is closed by a removable cover 4 which is transparent and which is provided with the annular flange or rim 5 that fits tightly over the casing, thus forming a practically water-tight joint.

The source of illumination for the fountain may be of any suitable or desired character. I prefer, however, to use an incandescent electric lamp 13. This lamp is sustained within the casing 3 in such a way that it can be readily removed therefrom. I have herein shown the lamp as sustained by a socket 14 to which the conducting wires are connected, and which in turn is secured to a holder or support 15. This holder or support is in the form of a bar which is adapted to set between two pairs of guides 16 secured to the inside wall of the casing, so that when the cover 4 is removed from the casing the bar or support 15 may be lifted vertically from the guides 16.

The color screen may be made in a variety of ways without departing from the invention. I prefer, however, to make it tubular in shape, and of such a size that the lamp 13 may be received within the tubular color screen. One convenient way of thus making the color screen is to make it in the form of a prismatic shell, the sides of which are formed of glass or transparent plates of different colors. The color screen herein shown is square in cross-section and it has four glass sides 17, which may either all have the same color or may be of different



colors and which are sustained by a frame which is herein shown as comprising two end-pieces 18 that are connected by tie-rods 20, these end-pieces 18 each being formed with a plurality of lips 19 which overlies the glass plates 17 and retain them in position. The frame is sustained at one end only and is arranged to be readily removed from the casing 3. In the present embodiment this frame has rigid therewith at one end a hub 21 rotatively mounted on a stud 22 that is secured to and extends from a support 23. Said support may conveniently be similar to bar 15; that is, in the form of a bar which is retained in position by a plurality of pairs of guides 24. The supporting bar 23 may readily be removed from the guides 24 when the cover 4 is removed from the casing.

I find it convenient to connect the two supporting bars 15 and 23 so that the lamp and the color screen can be removed as an entity from the casing, and this is herein accomplished by making the supporting bar 15 with a horizontally-directed foot 25 and the supporting bar 23 with a corresponding horizontally-directed foot 26, said feet being of a length so that they will overlap each other when the light and screen are in position, as shown best in Fig. 3.

27 is a sleeve carried by one of the feet through which the other foot extends, to connect the feet together. Since the feet are connected together by the sleeve it will be observed that when the top 4 is removed from the casing the lamp and the color screen can be removed together from the casing merely by sliding the supporting bars 15 and 23 upwardly in the guides 16 and 24. After the lamp and the color screen have been removed from the casing they may be separated from each other by withdrawing one of the feet from the sleeve 27. The color screen is arranged to be rotated about the lamp, and while it is within my invention to employ any suitable means for thus rotating the screen, I prefer to employ means whereby said screen may be rotated by the water discharged from the fountain, as this avoids the necessity of any separate outside agency for operating the device.

In the present embodiment of my invention the hub 21 has integral therewith a gear wheel 30 which is adapted to mesh with a driving gear 31 when the parts are in operative position, as clearly seen in Fig. 1 of the drawings. The driving gear 31 is mounted on a shaft 32 which sustains a water wheel 33 situated on the outside of the casing. The cover of the casing is provided with a trough or catch-basin 34, which is provided with a discharge opening 35 situated to deliver the water accumulating in the catch-basin on to the water wheel. When the fountain is in use a sufficient quantity of water will drain into the catch-basin to

keep the water wheel in operation, and the turning of the water wheel will obviously give rotary movement to the color screen through the gears above mentioned. The relative position of the gears 30 and 31 is such that the color screen with its connected gear 30 can be readily removed from the casing without disturbing the driving gear 31.

It will be noted that the fountain is comparatively simple in construction and yet is so arranged that all of the parts are readily accessible and repairs can therefore be easily made.

When the fountain is in use the light from the lamp 13 is transmitted through the color screen and the transparent top 4 of the casing onto the water spray or fountain, thus illuminating it, the color of the illumination depending on the construction of the color screen. In order to prevent the interior of the casing from becoming unduly heated, I propose to provide the sides of the latter with ventilating openings 45, and to provide other openings 46 in the bottom of the casing. In this way a circulation of air within the casing is secured which keeps the interior casing sufficiently cool.

The advantage of mounting the light and color screen within the casing 3 which in turn is supported by the spray device is that the entire apparatus is a self-contained portable apparatus which can be readily applied to the end of any water pipe or removed therefrom. My improved fountain, therefore, is one which can be readily set up temporarily in any location by simply extending a water pipe to said location and setting it with its associated casing 3 on the end of said water pipe.

Various changes in the construction of the device may be made without departing from the invention.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In an illuminated fountain, the combination with a spraying device comprising a spray ring and delivery pipes leading thereto, of a casing supported by said spraying device and having a transparent top, a light within the casing, a color screen, and means to move the color screen and light relative to each other.

2. In an illuminated fountain, the combination with a spraying device, of a casing supported by said spraying device and having a transparent top, a light within the casing, a color screen, and means to move the color screen and light relative to each other.

3. In an illuminated fountain, the combination with a portable spraying device adapted to be attached to the end of a pipe, of a casing supported by said spraying device and having a transparent top, a light within the casing, a color screen, and means



to move the color screen and light relative to each other.

4. In an illuminated fountain, the combination with a casing having an open top, 5 of a removable transparent cover for said top, means exterior to and separate from the cover to deliver water in the form of a spray above said casing, a light within the casing, a screen-supporting frame within the casing 10 but removable therefrom through the top thereof, said frame being provided with a gear, means within the casing separate from the cover to removably retain the frame in position, a driving gear sustained by the casing in position to engage the first-named 15 gear when the frame is in position, and means to rotate the driving gear.

5. In an illuminated fountain the combination with a casing having a transparent 20 top and a water spray device above the casing, of a light within the casing, a tubular

color screen inclosing the light, both the light and the color screen being removable from the casing, and means connecting said light and color screen whereby they may be 25 removed together.

6. In an illuminated fountain the combination with a casing having a transparent top, of a light within the casing, a movable color screen also within the casing, a spray 30 device above the top of the casing, a yoke-shaped delivery pipe to deliver water to the spray device, the arms of the yoke embracing the casing, and clips on the casing for detachably engaging said arms. 35

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

FREDERICK G. JONES.

Witnesses:

LOUIS C. SMITH,

THOMAS J. DRUMMOND.