

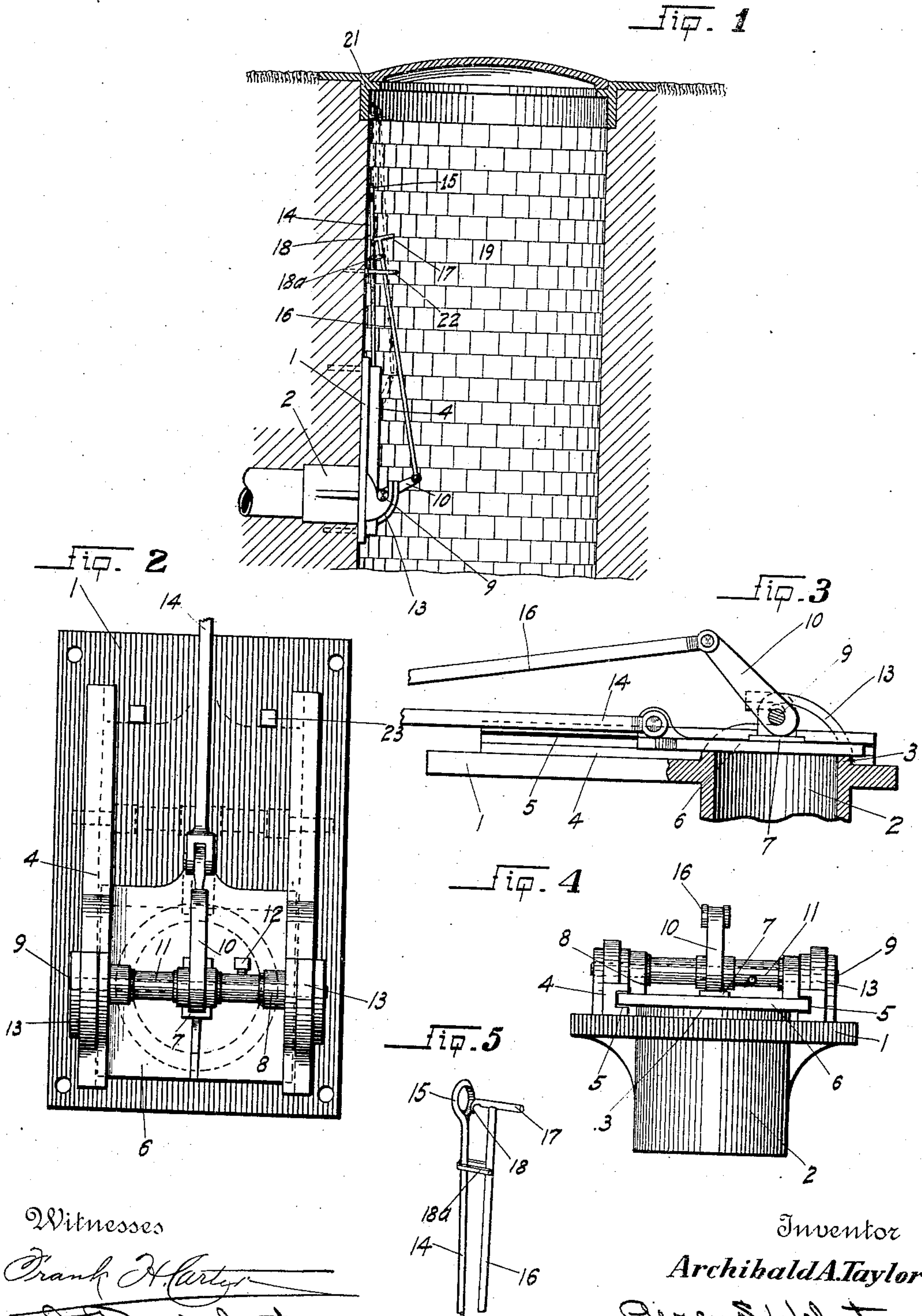
No. 894,240.

PATENTED JULY 28, 1908.

A. A. TAYLOR.

WATER GATE.

APPLICATION FILED DEC. 27, 1907.



Witnesses

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ARCHIBALD A. TAYLOR, OF STOCKTON, CALIFORNIA.

WATER-GATE.

No. 894,240.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed December 27, 1907. Serial No. 408,233.

To all whom it may concern:

Be it known that I, ARCHIBALD A. TAYLOR, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Water-Gates; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in water gates and particularly to those used in sewer systems, flumes, irrigating systems and the like, my object being to produce a gate for water mains, rain water sewers, sewer systems in general, and in short for all water systems, such gate being simple of construction, easily handled, and yet absolutely water tight and generally effective for the purpose for which it is designed. This object I accomplish by an adjustable sliding gate with an effective means for locking the same, also by such other and further construction as will appear by a perusal of the following specification.

In this present specification for the sake of elucidating the invention I describe the device as it is used in connection with a rain water sewer, but of course it will be understood that in practice it may be used wherever a water gate is desirable.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 designates a man-hole with my improved device arranged in connection with the sewer entering therein. Fig. 2 is a top plan view of my improved water gate. Fig. 3 is a longitudinal section of said water gate. Fig. 4 is a rear end view of the same. Fig. 5 is a fragmentary view of a hook mechanism.

1 designates a base plate provided with a pipe collar 2 on its under side, said collar extending slightly upward on the upper side of said plate 1 as at 3, said portion 3 being made preferably of brass. Arranged on each side of said portion 3 is a guide bar 4 provided with slots 5, in which slots 5 is arranged a plate 6 having a lower surface, preferably of brass, adapted to completely cover the portion 3 when said plate is in its lowest position.

7 is a lug upward from the plate 6 adapted to be at the center of the portion 3 when said plate is in its lowest position for the purpose as will appear. Upward from the plate 6 at each side thereof and in alinement with the lug 7 are two journal boxes 8 in which is loosely journaled a shaft 9 thus permitting said plate 6 to be movable vertically with respect to said shaft 9. Mounted on said shaft 9 is an eccentric cam 10 adapted to engage with the lug 7 for the purpose as will appear. 11 are sleeves mounted on said shaft between said cam 10 and said boxes 8, one of said sleeves 11 being provided with a set screw 12 adapted to hold the shaft 9 from lateral movement. The ends of the shaft 9 extend beyond the boxes 8 for the purpose of engaging with receiving jaws 13 on the bars 4 to prevent any undesired downward movement of the plate 6. Secured to the top of the plate 6 is a rod 14 provided with a top ring 15 for the purpose as will appear. Secured to the cam 10 is a rod 16 provided with a top handle 17 having a hook 18 at one end thereof for the purpose as will appear.

The *modus operandi* is as follows:—The plate 1 is secured in any suitable place as a manhole 19, (see Fig. 1) and the collar 2 connected to the water conduit. When there is no desire to stop the flow of water, the plate 6, carrying its parts, is pulled away from the portion 3 as shown by dotted lines in Figs. 1 and 2, thus leaving the conduit unobstructed. The ring 15 may be hooked over any hook 21 thus maintaining said upward position; when it is desired to close the conduit the rod 14 is released from the hook 21 and the plate 6 pushed down over the collar 3. The eccentric cam 10 is then pushed into engagement with the lug 7, this action, by reason of the plate 6 being movable vertically with respect to the shaft 9 forcing the under surface of the plate 6 to contact closely with the collar 3, thus effectually shutting off the water the shaft 9 of course, being held against vertical movement with respect to plate 6 while said plate is being pushed into place as described. This of course is necessary to permit of such operation of said plate 6.

When the ring 15 is hooked over the hook 21 the hook 18 may be also hooked into said ring 15, thus holding all the parts of the device loosely in suspension.

A ring or collar 18^a may encircle the two rods 14 and 17 in order to prevent them from falling out of reach.

Stop bolts 23 may be inserted in the plate 1 to prevent any undesired upward movement of the plate 6.

Thus it will be seen that I have produced a
5 water gate which substantially fulfils all the objects as set forth in the preamble of this specification.

While this specification sets forth in detail the present and preferred embodiment of my
10 invention, still in practice many deviations from such detail may be resorted to without departing from the spirit of the invention.

Having thus described my invention what I claim as new and useful and desire to se-
15 cure by Letters Patent is:—

1. In a device of the character described a plate having an inlet, a member slidably disposed on said plate, journal boxes on said member, a shaft disposed in said boxes in
20 such manner that said member is movable vertically with respect to said shaft, and a cam on said shaft adapted to engage said member, as set forth.

2. A plate having an inlet, a member slidably disposed on said plate, a shaft held up- 25 ward from said member, said member being movable vertically with respect to said shaft, a cam on said shaft adapted to engage said member, and means for holding such shaft against vertical movement with respect to 30 said member when said cam is operated, as set forth.

3. A plate having an inlet, receiving jaws extending upward from the face of said plate, a shaft adapted to be received snugly by said 35 jaws, a member hung on said shaft and being movable vertically with respect thereto, and a cam secured on said shaft and adapted to engage said member to close said inlet, as set forth. 40

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

ARCHIBALD A. TAYLOR.

Witnesses:

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