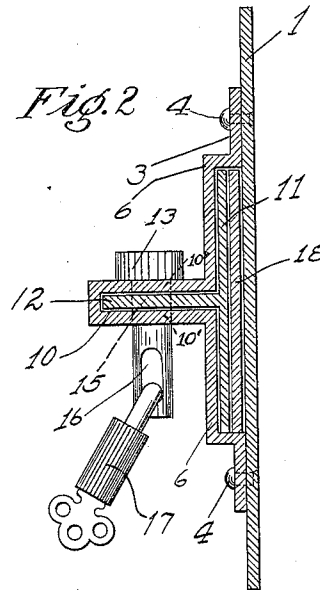
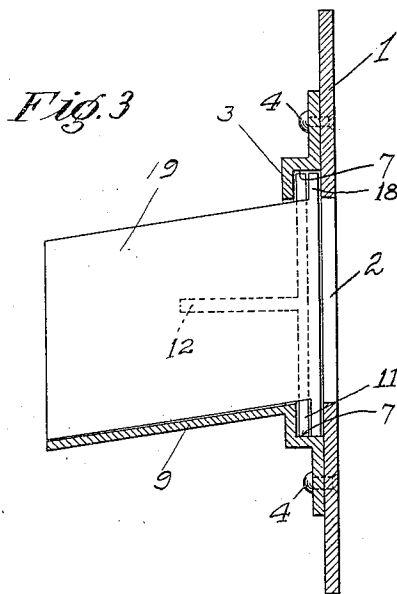
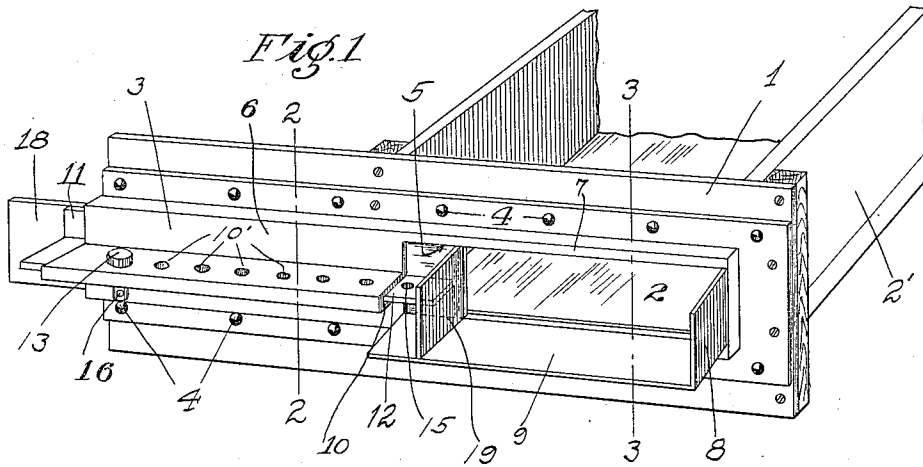


T. F. HORNING.
 OUTLET GATE.
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1,064,908.

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WITNESSES:

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TIMOTHY F. HORNUNG, OF SACRAMENTO, CALIFORNIA.

OUTLET-GATE.

1,064,908.

Specification of Letters Patent.

Patented June 17, 1913.

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To all whom it may concern:

Be it known that I, TIMOTHY F. HORNUNG, a citizen of the United States, residing at Sacramento, in the county of Sacramento and State of California, have invented certain new and useful Improvements in Outlet-Gates, of which the following is a specification.

The hereinafter described invention relates to an improved water outlet gate, adapted for use where measured quantities of water are desired, but is more particularly designed to be employed in connection with the outlet laterals of irrigation systems where measured quantities of irrigation water are sold to the consumers, and has for its principal object to provide a gate capable of being adjusted to admit of a flow therethrough of the maximum quantity of water per hour or day as is purchased by the consumer.

A further object is to provide means whereby said gate is locked from being opened by the consumer to a distance which will admit a greater quantity of water to flow therethrough than is purchased by the consumer.

Another and important object is to provide a gate capable of being adjusted from a closed position to the maximum opening controlled by the locking mechanism, so that the quantity of water issuing from the opening can be readily regulated, but the opening in the face plate is prevented from being enlarged to accommodate a greater outflow of water than is paid for by the consumer.

With the above mentioned and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims may be resorted to without departing from the spirit or sacrificing any advantages of the invention.

To more fully comprehend the invention, reference should be had to the accompanying sheet of drawings in which like letters of reference designate similar part, and in which—

Figure 1 is a perspective view of my improved outlet gate mounted at the discharge

end of an irrigation lateral, disclosing the plate carrying the same, the opening therein, the slide gate for regulating the width of said opening, the means for locking the slide in its adjusted position and the auxiliary cut-off slide for controlling the regulated opening. Fig. 2 is a transverse sectional view taken on line 2—2 of Fig. 1, disclosing the face plate, the guide plate secured to the face thereof, the slide gate and the auxiliary cut-off slides positioned in the guide, and the locking means for said slide gate. Fig. 3 is a transverse sectional view on line 3—3 of Fig. 1, disclosing the face plate, the guide plate, the openings therein, and the auxiliary cut-off, and a portion of the main slide gate.

Referring more particularly to the drawings, the reference numeral 1 designates a suitable supporting or face plate provided with an opening 2 extending longitudinally thereof and said plate is adapted to be secured, in any suitable manner, over the outlet opening or lateral 2' of an irrigation ditch or other source of water supply. A guide plate 3 is secured to one face of the plate 1 by the units 4 or other suitable means, and said plate is provided with an opening 5, which registers with the opening 2 in plate 1. A guide 6 extends the full length of the plate 3 from one edge of the opening 5 and also extends above and below said opening in the form of L-shaped trackways 7, which are united at their outer ends by a plate 8 which extends outwardly from the opposite side edge of the opening 5, and provides one end of an outlet chute or trough, the bottom edge of which is formed by the outwardly projecting lip 9 which extends the full width of the lower edge of said opening 5. A suitable channel or slot 10 is formed for the full length of the plate 3 at right angles to the guide 6, the inner edge thereof communicating with said guide for its full length, and said plate is provided adjacent said slot with spaced openings 10'.

A slide gate 11, formed with a longitudinally extending outwardly projecting tongue or rib 12 is slidably mounted in the guide 6, with the tongue thereof projecting in the slot 10 and said tongue is locked in adjusted position by a suitable headed bolt 13 which is inserted through the openings 10' in the plate 3 and through corresponding openings 15 in the tongue 12. A slot or opening 16 is

provided in the bolt 13 and is adapted to receive a padlock 17 or other securing means which prevents the bolt from being withdrawn by unauthorized parties after the slide gate 11 has been properly adjusted to regulate the required flow of water purchased by the consumer.

It will be observed that by adjusting the slide gate 11 in the guide and locking the same in position, that any required width may be given to the opening through which the water passes, and that the consumer or a person paying for a stipulated amount of water per day or hour, will be prevented from increasing the size of the opening to permit a greater quantity of water to flow therethrough.

Slidably mounted in the guide 6 in rear of the slide gate 11 is an auxiliary cut-off 18, provided at its forward end with a rectangularly bent portion 19 which slides over the lip 9 and forms the opposite end of the water outlet chute. It will be observed that the auxiliary cut-off 18 may be operated to regulate the size of the opening afforded by the slide gate 11, and if necessary close said opening entirely, the operation of the auxiliary cut-off 18 being under control of the party purchasing the water, to reduce the flow thereof from the outlet chute if for any reason it becomes necessary. The outward sliding of the auxiliary cut-off 18 is limited by the portion or arm 19 thereof contacting with the end of the slide gate 11.

By the employment of my improved gate the consumers will be enabled to regulate or entirely shut off the flow of water purchased, but will be prevented from opening the gate to such a distance as to admit a greater quantity of water to flow there-through than that purchased.

Having thus described my invention what I claim is:—

1. The combination with an irrigation outlet lateral, of a guide secured over the discharge end thereof, a slide gate slidably mounted in said guide and adapted for controlling the volume of water issuing from said lateral, locked means associated with said slide gate for locking the same in a predetermined open position, and an auxiliary cut-off gate for controlling the opening afforded by said slide gate.

2. The combination with an irrigation outlet lateral, of a guide secured over the discharge end thereof, a slide gate slidably mounted in said guide and adapted for controlling the volume of water issuing from said lateral, locked means associated with said slide gate for locking the same in a predetermined open position, and an auxiliary cut-off gate slidably mounted in said

guide for controlling the opening afforded by said slide gate.

3. The combination with an irrigation outlet lateral, of a guide secured over the discharge end thereof, a slide gate slidably mounted in said guide and adapted for controlling the volume of water issuing from said lateral, lock controlled means associated with said slide gate and said guide for locking said gate in a predetermined open position, and an auxiliary cut-off gate slidably mounted in said guide and positioned adjacent said slide gate for controlling the opening afforded by said slide gate.

4. The combination with an irrigation outlet lateral, of a face plate secured over the discharge end thereof and provided with a suitable outlet opening therein, a guide secured thereto and extending above and below said opening, a slide gate slidably mounted in said guide and adapted for controlling the volume of water issuing from said lateral, lock controlled means associated with said slide gate and said guide for locking said slide gate in a predetermined open position, and an auxiliary cut-off gate slidably mounted in said guide and positioned adjacent said slide gate for controlling the opening afforded by said slide gate.

5. The combination with an irrigation outlet lateral, of a face plate secured over the discharge end thereof and provided with an outlet opening therein, a guide plate secured to said face plate adjacent said opening and formed with a guide therein, portions of which extend above and below said opening, an outwardly projecting flange extending from one side edge of the opening in said plate, an outwardly projecting flange extending from the lower edge of the opening in said plate, a slide gate slidably mounted in said guide and adapted for controlling the volume of water issuing from said lateral, lock controlled means associated with said slide gate and said guide plate for locking said slide gate in a predetermined open position, an auxiliary cut-off slidably mounted in said guide adjacent said slide gate for controlling the opening afforded by said slide gate, and an outwardly projecting flange extending from the forward end of said auxiliary cut-off, the three mentioned outwardly projecting flanges coöperating to form an outlet trough for said opening.

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

TIMOTHY F. HORNUNG.

Witnesses:

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A. M. PAUL.