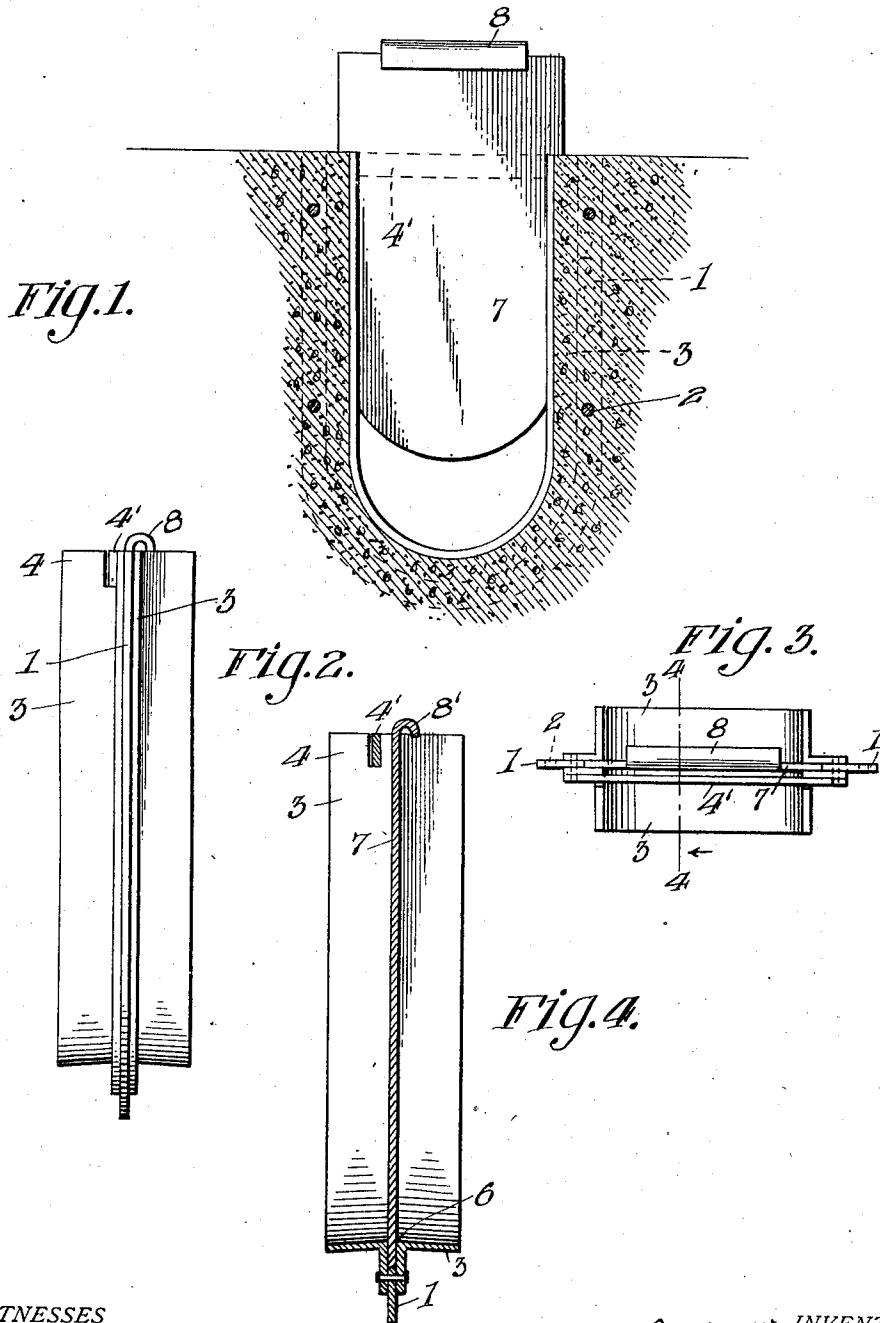


J. KISSINGER & G. FRISCH.
IRRIGATION GATE.
APPLICATION FILED JULY 8, 1911.

1,003,469.

Patented Sept. 19, 1911.



WITNESSES
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UNITED STATES PATENT OFFICE.

JACOB KISSINGER AND GEORGE FRISCH, OF ARTESIA, TERRITORY OF NEW MEXICO.

IRRIGATION-GATE.

1,003,469.

Specification of Letters Patent. Patented Sept. 19, 1911.

Application filed July 8, 1911. Serial No. 637,467.

To all whom it may concern:

Be it known that we, JACOB KISSINGER and GEORGE FRISCH, citizens of the United States, residing at Artesia, in the county of Eddy and Territory of New Mexico, have invented new and useful Improvements in Irrigation-Gates, of which the following is a specification.

Our invention relates to irrigation gates and particularly to a gate adapted to be placed at the heads of flumes, ditches and the like for controlling the passage and flow of water.

It is our object to provide a gate of this type the construction of which has been designed with a view to accomplish with the best results the purposes above set forth, and our invention embodies certain constructional elements and a manner of relatively assembling the same which will be hereinafter distinctly pointed out and described in detail.

Heretofore it has been the general practice in constructing gates of this type to employ a slide which is adapted for movement to and fro in a vertically disposed seat. Failure of this type to effectually restrain the flow when closed has given rise to the devising of several valves wherein the seats are disposed substantially horizontally. But as this style has by no means been perfected, we have designed the device herein disclosed with a view to surmounting the difficulties by which those now on the market are beset, and with a further view to devising a gate which will be simple, durable, economical of manufacture, and readily operable.

With the foregoing and other objects in view our invention consists in such details of construction, and in the arrangement and combination of parts as will be hereinafter more fully described and specifically pointed out in the appended claims.

In describing our invention in detail reference will be had to the accompanying drawings in which like characters denote like or corresponding parts throughout the several views and in which,

Figure 1 is an elevation of our improved gate illustrating the same as it appears set in concrete. Fig. 2 is an end elevation of our invention, Fig. 3 is a top plan view of our invention, and Fig. 4 is a vertical sectional view taken on the line 4—4, Fig. 3.

Referring more particularly to the draw-

ing disclosing an embodiment of our invention, the frame of our improved gate consists in a preferably U-shaped member 1 which may be provided with apertures 2 for a purpose presently to be disclosed and to which may be secured in any well known manner angle irons 3. The angle irons 3 are suitably bent to conform to the shape of the member 1 and disposed thereon preferably in a manner designed to allow a portion of the said member 1 to project therebeyond. Portions 4 in the angle irons 3 preferably at the ends thereof may be slotted to receive a brace 4' which may be secured in any suitable manner to the said angle irons.

It will be readily seen that the relative construction of the members 1 and angle irons 3 provides a guide-way and seat for a slide 7 which may be rolled at the upper end thereof to supply operating means 8. The edge of the slide 7 we preferably bevel in order to facilitate the operation of the same and to insure water-tight closing of the slide.

It will be readily appreciated from the construction herein described that we have provided a novel, highly useful and durable gate which fulfils in every way the objects heretofore set forth. The disposition of the several parts adapts our gate to be set in concrete, as we have elected to illustrate in Fig. 1 of the drawing. As a head gate it may be molded *in situ* at the mouth of a concrete flume.

Suitable means may be passed through the apertures 2 whereby our gate may be the better secured and maintained in position.

We desire it to be understood that slight changes in the construction and in the arrangement and combination of the several parts may be resorted to without departing from the spirit of our invention, provided such changes fall within the scope of the appended claims.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent is:—

1. In a gate, a frame comprising a substantially U-shaped member, angle irons secured to said member, and a slide adapted for movement between said angle irons.
2. In a device of the character described, two substantially U-shaped angle-irons, the adjacent faces of said angle-irons being

spaced apart, and a slide operative between said irons in said spaces.

3. In a device of the character described, two substantially U-shaped angle-irons having their adjacent faces spaced apart, a
5 slide operative in the space between said angle-irons, and means extending beyond the edges of said angle-irons adapted to facilitate the anchoring thereof in a plastic
10 seat.

4. In a device of the character described, a frame, angle-irons mounted on said frame and extending inwardly therefrom whereby

a seat is formed, a slide operative in said seat.

5. In a device of the character described, a substantially U-shaped frame, angle-irons mounted on said frame and extending inwardly therefrom, whereby a seat is formed between said irons, a slide operative in said
20 seat, and a brace on said angle-irons.

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