H. E. S. CRAWFORD.

BACKWATER CUT-OFF.

APPLICATION FILED APR. 7, 1908.

921,513. Patented May 11, 1909.

Fig. 1.

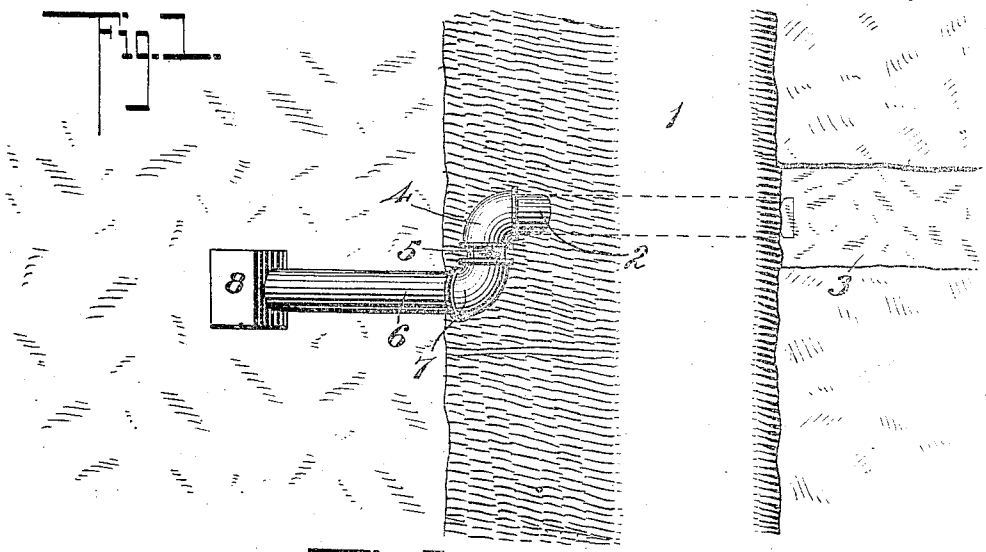


Fig. 2.

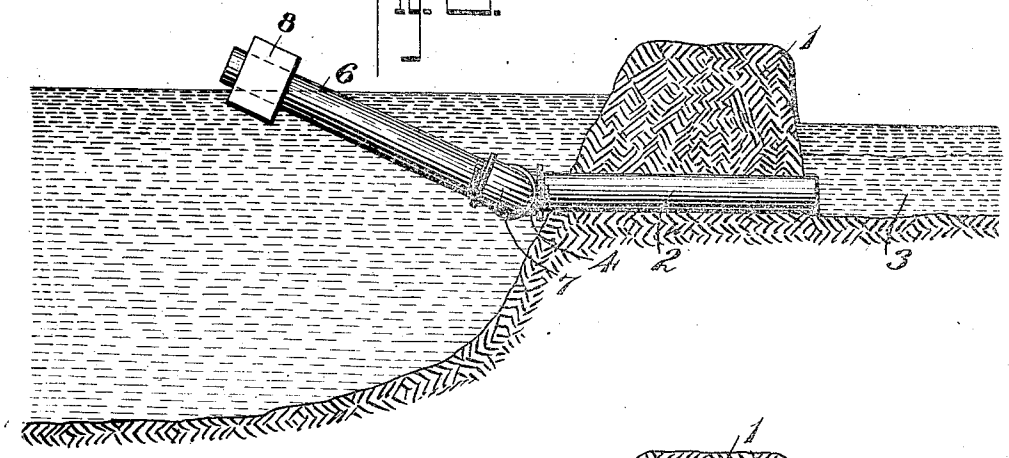
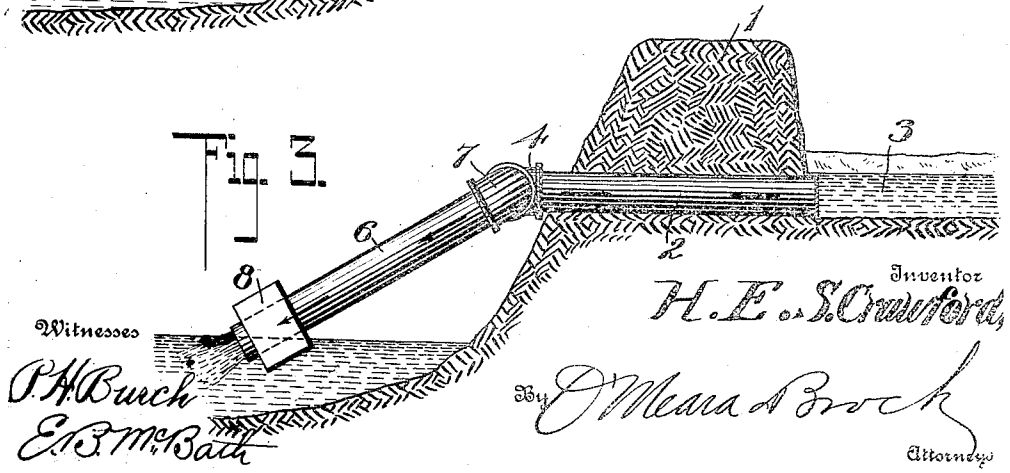


Fig. 3.



Witnesses

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BACKWATER CUT-OFF.

No. 921,513. Specification of Letters Patent. Patented May 11, 1909.

Application filed April 7, 1908. Serial No. 425,797.

To all whom it may concern:

Be it known that I, HUGH E. S. CRAWFORD, a citizen of the United States, residing at Sumner, in the county of Chariton and State of Missouri, have invented a new and useful Improvement in Backwater Cut-Offs, of which the following is a specification.

This invention relates to a back water cut-off designed to automatically drain land protected by a levee and at the same time to prevent back water from passing through the drain pipe when the level of water in the stream into which the drainage is run is higher than the inlet end of said drain pipe.

The invention consists in the novel features of construction hereinafter described, pointed out in the claim and shown in the accompanying drawings, in which—

Figure 1 is a plan view of the device. Fig. 2 is a side elevation showing the drain in inoperative position. Fig. 3 is a side elevation showing the drain in operation.

In these drawings 1 represents a levee and 2 a drain pipe therethrough, the inlet end of which opens into a suitable ditch 3 and the outer end of the drain pipe is provided with an elbow 4 which carries a short pipe section 5. A discharge pipe 6 is rotatably mounted upon the pipe 5 by means of a connecting elbow 7. The pipe 6 carries adjacent its free end a float 8 of sufficient size and buoyancy to lift the said pipe 6 into the position shown in Figs. 2 and 3 when the water reaches the levee.

The operation of the device will be readily understood from the drawings in which Fig. 1 shows the pipe 6 resting upon a beach as at a time of low water. When the stream rises until its water level is above that of the land to be drained as in Fig. 2 the pipe 6 is elevated by the float 8 so that its discharge end is out of the water, thus preventing passage of water through the pipes 6, 5 and 2 and so through the levee. As the water in the stream falls the float 8 will also fall and when the level of the water in the stream is below the land to be drained the pipe 6 will incline downwardly as shown in Fig. 3 thus permitting discharge of water from the ditch 3 into the stream. It will, therefore, be seen that I have provided a drain pipe in which the rise and fall of the stream into which it empties will automatically regulate the flow of water through it.

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

The combination with a levee drain pipe, of a vertically swinging discharge pipe in communication with said drain pipe and means for automatically lifting the discharge end of the last mentioned pipe above high water level when said water level is above the level of the said drain pipe, as and for the purpose set forth.

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