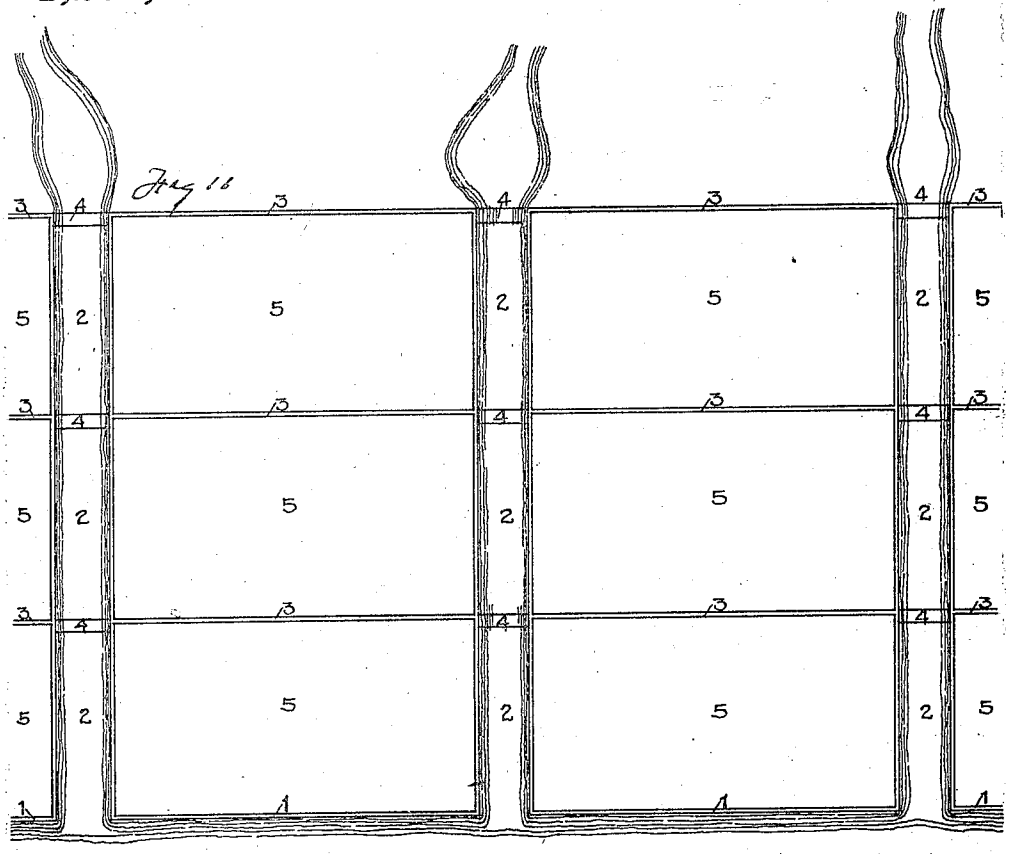
Z. T. SWEENEY.

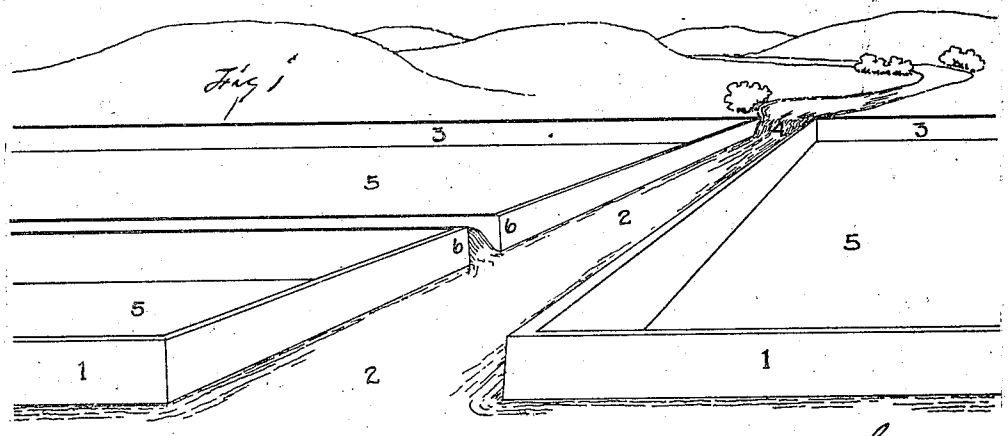
MULTIPLE DAM AND CONDUIT.

APPLICATION FILED APR. 24, 1918.

1,284,946.

Patented Nov. 12, 1918.





Witnesses { W. J. Richard
Kate Irwin

Zachary T. Sweeney.

UNITED STATES PATENT OFFICE.

ZACHARY T. SWEENEY, OF COLUMBUS, INDIANA.

MULTIPLE DAM AND CONDUIT.

1,284,946. Specification of Letters Patent. Patented Nov. 12, 1918.

Application filed April 24, 1918. Serial No. 230,542.

To all whom it may concern:

Be it known that I, ZACHARY T. SWEENEY, a citizen of the Unitel States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented a new and useful Multiple Dam and Conduit, of which the following is the specification.

My invention relates to improvements in a construction for preventing the overflow of lowlands, and the objects of my improvements are, first, to prevent an overflow on low lying lands by the tides of the sea. Second, to afford facilities for fresh water streams back of the sea wall to find their way into the sea at any stage of the tide. I attain these objects by the construction illustrated in the accompanying drawings.

In the drawings, Figure 1 is a perspective view of a sea wall, dam and conduit made of some plastic material, preferably concrete, in which the sea wall is connected by an integral conduit to a dam farther inland forming a solid construction, doing away with all mechanical appliances for holding the various parts together. 1 represents the sea wall intersected by a conduit 2 which connects the sea wall with dam 3, which is considerably higher than the sea wall 1. In dam 3 there is a spillway 4 through which the water collected above dam 3 can flow into conduit 2 and find its way through the sea-wall to the sea at any stage of the tide without overflowing the lowlands 5. There may be as many conduits 2 as are necessary to carry the water from above dam 3 to sea level; also there may be as many dams 3 as are necessary, one above the other, all connected by one or more conduits 2 to form a solid construction for preventing the overflow of lowlands. 6 represents a lateral conduit used to convey the water from small streams emptying into the lowlands between sea wall and dam 3 into conduit 2.

Fig. 2 is merely an amplification of Fig. 1, showing more than one dam, conduit and spillway. The various dams are represented by 3; the conduits by 2; the spillways by 4 and the lateral conduits by 6. It is obvious that the channels 2 are formed by wing dams connecting openings in the dam 1, and the sides of spillways 4, and that the lateral conduits 6, are formed by secondary dams connecting the sides of the spillways in the wing dams.

While I have expressed a preference for concrete, I do not wish to be limited to the use of any particular material in constructing my invention. Its value is in the way the several structures of which it is composed are related to each other rather than of the material of which it is composed.

Having thus described my invention, what I claim Letters Patent for, is,

In a construction for preventing the overflow of lowlands, a sea wall having openings therein, wing dams arranged at angles to and projecting outwardly from said sea wall and having spillways therein, a dam spaced from and arranged in parallel relation to said sea wall and connecting the ends of said wing dams and having spillways therein, the said wing dams forming side walls of channels between the spillways in said dam and the openings in said sea wall, and secondary dams arranged parallel to said sea wall and connecting the sides of the spillways in said wing dams to form channels therebetween.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses this 19th day of June, A. D. 1918.

ZACHARY T. SWEENEY.

Witnesses:
D. J. RICHARD,
KATE IRWIN.