(No Model.)

# S. P. WILLIAMS.

## PORTABLE DAM.

No. 419,093. Patented Jan. 7, 1890.

Fig. 1.

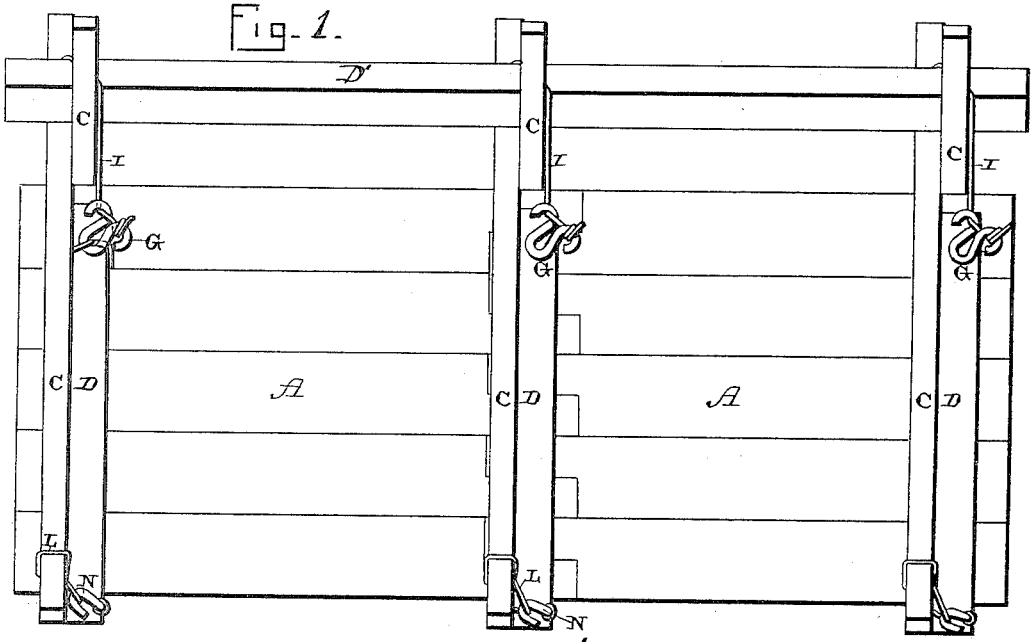
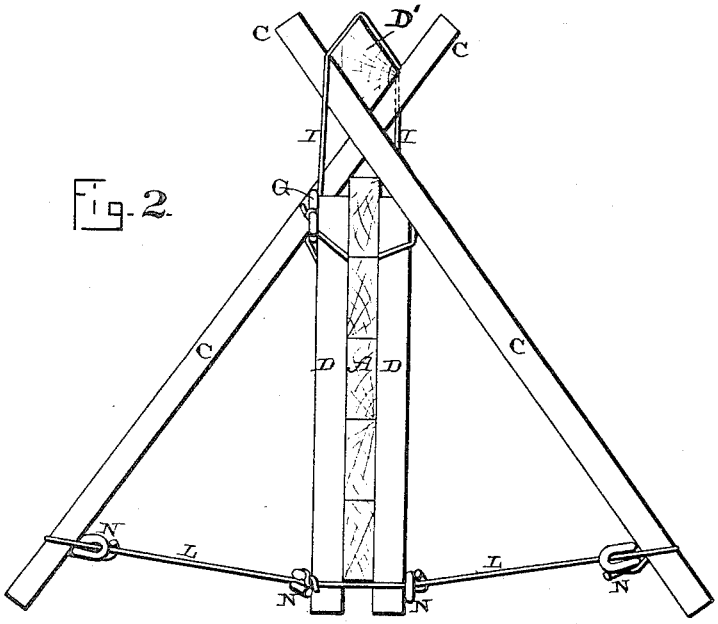



Fig. 2.

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# UNITED STATES PATENT OFFICE.

STEPHEN P. WILLIAMS, OF CALLOWAY, TEXAS.

## PORTABLE DAM.

SPECIFICATION forming part of Letters Patent No. 419,093, dated January 7, 1890.

Application filed October 30, 1889. Serial No. 328,678. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN P. WILLIAMS, of Calloway, in the county of Upshur and State of Texas, have invented certain new and useful Improvements in Portable Dams; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in portable dams; and it consists in the combination of the timbers which form the dam, the vertical uprights between which the timbers are placed, the braces which support the dam in an upright position, the rider placed upon the braces, the wires, and the hooks to which the wires are fastened, as will be more fully described hereinafter.

The object of my invention is to form a portable dam which is adapted for use on small streams in order to prevent overflows from washing the land.

Figure 1 is a side elevation of a dam which embodies my invention. Fig. 2 is an end view of the same.

A represents the timbers or boards out of which the dam is formed and which have their ends so shaped as to overlap each other, as shown. These boards or timbers have their edges to fit snugly together, so as to prevent the passage of water between them. Placed upon each side of the boards are the uprights D, which are in close contact with the sides or edges of the timbers and which hold them in position, one upon the top of the other. The braces C cross each other above the top board, and upon the top of the braces is placed a rider D′. These braces support the dam in a vertical position in whatever place it may be put.

Fastened at one end to the W-shaped hooks G are the wires I, which pass up over the rider diagonally between the two braces, then down through a second W-shaped hook upon the opposite side, across the outside of the vertical upright, in between the two top boards, then through the first hook again, around the opposite side of the vertical support upon the other side of the dam, in between the two upright timbers again, and is again fastened to a hook upon the opposite side of the dam from that at which it started. There are two of these W-shaped hooks for each pair of the vertical uprights and braces C, and these hooks serve both to prevent the wires from breaking, as it makes its twist in a longer circle and is convenient as a fastening for the wires. The bottom wires L are fastened at one end to the single hook N, and the wire is then passed around the lower end of the braces through a second hook, which is attached to the inner end of the wire which extends over the opposite side of the dam, under the lower timber of the dam, and has a second hook fastened to its inner end. These wires, extending under opposite sides of the dam, form supports for the timbers or boards, and the hooks are used in such a manner as to draw and take up all slack in the wire, and thus keep the parts firmly secured together.

A dam constructed as here shown is light, cheap, can be readily taken down and then put together in another place, and is intended to be used along streams which overflow their banks, for the purpose of preventing the water from badly washing the land.

By means of the single and double hooks here shown the wires can be quickly and readily fastened in place and then tightened, so as to secure every part of the dam rigidly in place.

Having thus described my invention, I claim—

The combination of the timbers or boards, the vertical uprights between which they are placed, the crossed braces, the rider placed upon the tops of the braces, the wires, and the single and double hooks secured to the wires for fastening the parts together and tightening them in position, substantially as shown and described.

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

STEPHEN P. WILLIAMS.

Witnesses:

THOS. H. CHANDLER,

G. F. DOUPHRATE.