

M. D. McFARLANE.
IRRIGATING DEVICE.
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898,984.

Patented Sept. 15, 1908.

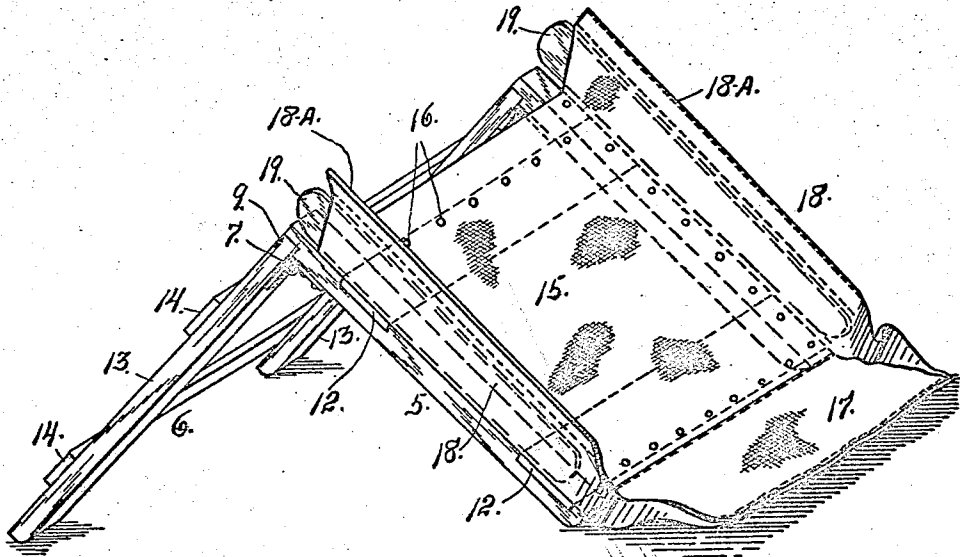


Fig. 1.

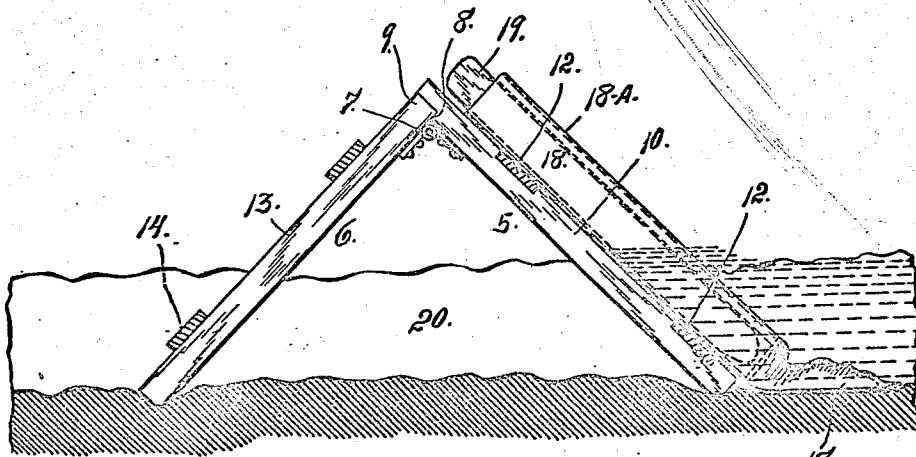


Fig. 2.

Witnesses
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By *[Signature]* Attorney

UNITED STATES PATENT OFFICE.

MALCOLM D. McFARLANE, OF ASPEN, COLORADO.

IRRIGATING DEVICE.

No. 893,984.

Specification of Letters Patent.

Patented Sept. 15, 1908.

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To all whom it may concern:

Be it known that I, MALCOLM D. McFARLANE, a citizen of the United States, residing at Aspen, in the county of Pitkin and State of Colorado, have invented certain new and useful Improvements in Irrigating Devices; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices adapted to be placed in irrigating laterals for the purpose of causing the water to overflow the ground adjacent the lateral.

The object of my improvement is to provide a device of economical construction which shall efficiently perform the aforesaid function; and to this end my improvement consists of a frame composed of two hinged members which when open to their limit of movement occupy positions perpendicular or approximately perpendicular to each other. To one of these members is secured a canvas apron having a flap at its lower extremity adapted to lie upon the bottom of the lateral, and lateral wings connected with the sides of the apron-carrying member, the said wings being free to swing whereby when the device is placed in the lateral, these wings may rest against the sides of the lateral. Each wing is provided with a stiffening device preferably composed of a wooden slat. These slats give the wings sufficient rigidity to prevent their folding down against the body of the apron. The object of the wings is to provide the apron with means to prevent the water from running around the device at the sides. It often happens that the sides of the lateral are not perpendicular, but more or less inclined. The wings of the apron just described, are adapted to engage the sides of the lateral, regardless of the exact shape of its walls. The stiffening slats hold the wings in operative position, while the canvas portion of the apron nevertheless extends beyond the wings, thereby providing a flexible feature adapted to lie closely against the walls of the lateral regardless of

their irregular contour. The body of the apron is secured to the apron-carrying member in any suitable manner, and serves to dam up the water of the lateral whereby it is caused to overflow the adjacent ground to be irrigated as heretofore explained.

Having briefly outlined my improved device, I will proceed to describe the same in detail reference being made to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing, Figure 1 is a perspective view showing my improved device open or in position for use. Fig. 2 is a section of the device shown in side view, the same being shown inserted in the lateral or in position for use.

The same reference characters indicate the same parts in both views.

Let the numerals 5 and 6 designate the two members of my improved device, the said members being connected by hinges 7 whereby they may be opened to the operative position as shown in the drawing, or folded into small compass when not in use or for convenience of transportation. The member 5 is provided with a shoulder or offset 8 which is engaged by the extremity 9 of the member 6. The frame work of these two members may be of any suitable construction. As shown in the drawing the member 5 consists of two parallel side bars 10 connected by cross pieces 12; while the member 6 consists of two parallel members 13 connected by cross pieces 14. To the cross pieces 12 are secured in any suitable manner, a canvas covering 15. As shown in the drawing this canvas covering is secured to the cross pieces by means of fastening devices 16. The canvas is preferably formed double whereby a heavy apron is formed. The body part 15 of the apron is provided at its lower extremity with a loose flap 17. It is also provided at its opposite side edges with members 18 extending beyond the frame 5 and carrying reinforcing slats 19 preferably inserted between the two canvas layers. The members 18 are movable since their canvas connection with the body 15 at the opposite sides of the apron, constitutes hinges, forming in effect hinged wings adapted to swing freely back and forth, into engagement with the

side walls of the lateral, regardless of the exact contour of the same. These wings 18 have longitudinal canvas extensions 18^a, which project beyond the stiffening or reinforcing slats 19.

When the device is in use it is opened to the position shown in the drawing, or in such a manner that the two frame members occupy positions at right angles or approximately at right angles or perpendicular to each other. The device is then placed in the lateral 20, so that the free or lower ends of the frame members, rest upon the bottom of the lateral, and with the apron portion occupying the up-stream position or opposed to the current or flow of the water in the lateral. The flap 17 naturally hugs the bottom of the lateral, whereby the water is prevented from passing underneath the device; while the wings 18, fall outwardly against the walls or banks of the lateral. Then when the water is turned on, these devices, dam up the water in the lateral and cause it to overflow

the adjacent territory as heretofore explained.

Having thus described my invention, what I claim is:

In an irrigating device of the class described, the combination of two frame members hinged together and adapted to occupy positions at a suitable angle to each other when both are at their limit of movement, a cover of flexible material with which one of the members is provided, the said material extending downwardly beyond the frame member and outwardly at the sides thereof forming wings, and stiffening or reinforcing slats with which the said wings are equipped, substantially as described.

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

MALCOLM D. McFARLANE.

Witnesses:

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