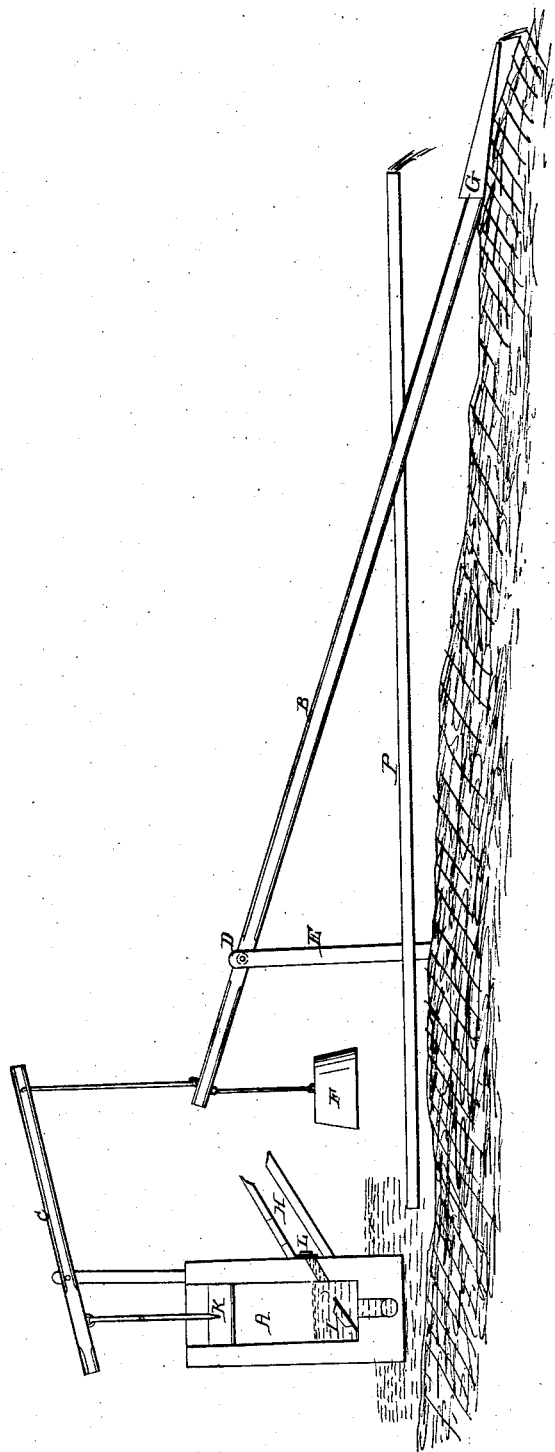


*D. L. & S. Myers,*

*Pump Lever.*

*N<sup>o</sup> 859.*

*Patented July 28, 1838.*



# UNITED STATES PATENT OFFICE.

DAVID L. MYERS AND SAML. MYERS, OF CHRISTIANSBURGH, VIRGINIA.

## MODE OF RAISING WATER.

Specification of Letters Patent No. 859, dated July 28, 1838.

*To all whom it may concern:*

Be it known that we, DAVID L. MYERS, and SAMUEL MYERS, of Christiansburgh, Montgomery county, State of Virginia, have invented a new and useful Improvement in Raising Water, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

This improvement consists in placing a common suction and force pump A, Figure 1, in the spring or place from whence the water is to be raised and attaching a lever B to the long end of the pump handle C whose fulcrum is a roller D moving on the heads of two parallel posts or standards E and suspending a weight F to the short end of said lever B attached to the long end of the pump handle and a box or vessel G for containing and holding water to the other or long end of the lever B, the weight being for the purpose of depressing the pump handle and the box of water for raising it, and the weight. The water is conveyed to the box G by means of a trough or pipe P leading from the spring to it. The weight F must be sufficient to depress the short end of the lever B and the long end of the pump handle C when the water vessel is empty.

An inclined pump stock H is inserted into the vertical pump stock A above the suction valve I and below the piston K having a valve L in it to prevent the return of the water. This inclined pump stock conveys the water to whatever height or place desired. The weight F depresses the end of the pump handle C and the short end of the lever B causing the piston K to rise and making a partial vacuum in the vertical pump stock A into which the water rises and fills said vacuum. Water from the spring or other places runs along the trough or pipe into the box G at the long end of the lever B until it be nearly filled when its gravity overcomes that of the weight and causing it, with the long end of the lever, to descend and raising the weight with the short end of the lever and the long end of the pump handle and causing the piston attached to its short end to descend closing the

suction valve I and forcing the water up the inclined pump stock. As soon as the water box has descended with the long end of the lever below the level of its fulcrum the water runs out and the box being again lightened of its load the weight gains the preponderance and draws down the long end of the pump handle and short end of the lever thus again raising the water box and piston which latter creating another partial vacuum into which the water again rises while that which was forced into the inclined pump stock is prevented from returning by the valve L. The water again flows into the box and thus causes another stroke to be given and so on.

Two or more of these machines may be placed side by side, or other situation, filled from a reservoir into which the water is conducted from the spring forcing the water into the inclined pump stock which may be furnished with valves similar to the one above described for preventing the return of the water by which a constant stream may be kept up; for while one lever is down another may be up and so on.

The invention claimed and desired to be secured by Letters Patent consists in—

The before described mode of raising water by conducting a stream of water into a box with an inclined bottom fastened to the long end of the lever, which, when nearly filled causes it to descend and drive down the piston which forces the water upward and when said box is below the level of the fulcrum of the lever discharges itself the gravity of the weight at the other end causing the piston to rise making a partial vacuum in the pump stock into which the water rises as before described.

DAVID L. MYERS.  
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Witnesses to the signature of D. L. Myers:

WM. P. ELLIOT,  
EDMUND MAHER.

Witnesses to the signature of Samuel Myers:

WM. THOMAS,  
HENRY STANGER.