

W. W. Sulliff

Swinging Gate.

N^o 6,115.

Patented Jan. 8, 1867.

Fig. 1.

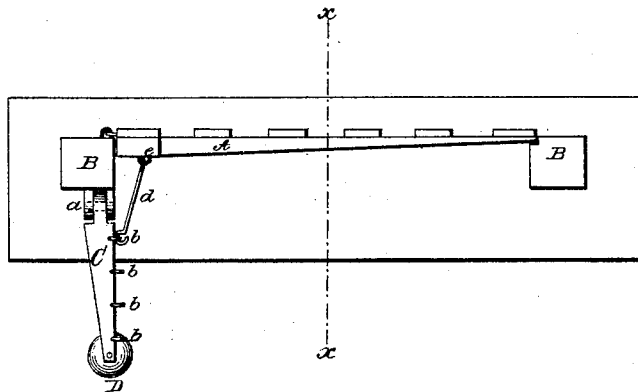
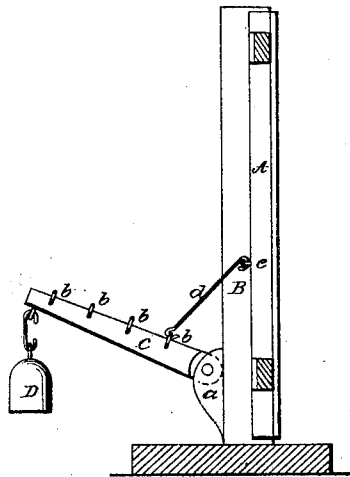


Fig. 2.



Witnesses:

J. A. Service.
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Inventor:

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Per [Signature] Attorney

United States Patent Office.

W. W. SUTLIFF, OF TOWN LINE, PENNSYLVANIA.

Letters Patent No. 61,115, dated January 8, 1867.

IMPROVEMENT IN GATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. W. SUTLIFF, of Town Line, in the county of Luzerne, and State of Pennsylvania, have invented a new and useful Improvement in Gate Attachment; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention consists in an arrangement for closing gates by a lever and weights, and in such a manner that with a small weight I operate upon the gate with a lever of different powers, thus increasing or diminishing the force required to open the gate, as will hereinafter appear.

Figure 1 is a plan or top view of the gate.

Figure 2 is a vertical cross-section, through the line *z z* of fig. 1.

Similar letters of reference indicate like parts.

A represents the gate. B the posts between which the gate is hung. C is the lever. D is the weight. There is nothing peculiar in the construction of the gate. It is made and hung to the gate post in the usual manner. Upon the lower inside portion of the post to which the gate is hung, the lever C is attached. It is pivoted to the post in any convenient manner, either directly, or by a block prepared for the purpose, as seen in the drawing, fig. 2, at *a*, forming a joint. This lever has staples, *b*, upon its upper side, into which a rod, *d*, is hooked. This rod *d* is attached to the gate at *e*. The weight D is attached to the end of the lever C by hook or link and staples, or in any convenient manner. It will be seen that to open the gate with the rod attached to the lever, as seen in the drawing, it would require much more force than it would if the rod was attached too near the outer end of the lever. When the gate is opened, the weight D must be raised, and the force is determined by the position of the rod as attached to the lever. Occasions are frequent when it is very convenient and necessary to vary this force, and it is believed that this is the easiest and most effectual way by which it can be done. To suit different kinds and sizes of gates, as well as different circumstances and situations, the length of the lever and the size of the weight may be varied as desired. The same arrangement may be applied to doors of different kinds, consequently I do not confine myself exclusively to gates in its application.

What I claim as new, and desire to secure by Letters Patent, is—

The lever C, the weight D, and the rod *d*, constructed and arranged substantially as herein shown and described, in combination with a gate or door, as and for the purposes set forth.

W. W. SUTLIFF.

Witnesses:

J. S. HICE,

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