2 Sheets—Sheet 1.

C. D. & I. HALDEMAN.

Gate.

No. 209,040. Patented Oct. 15, 1878.

Fig. 1.

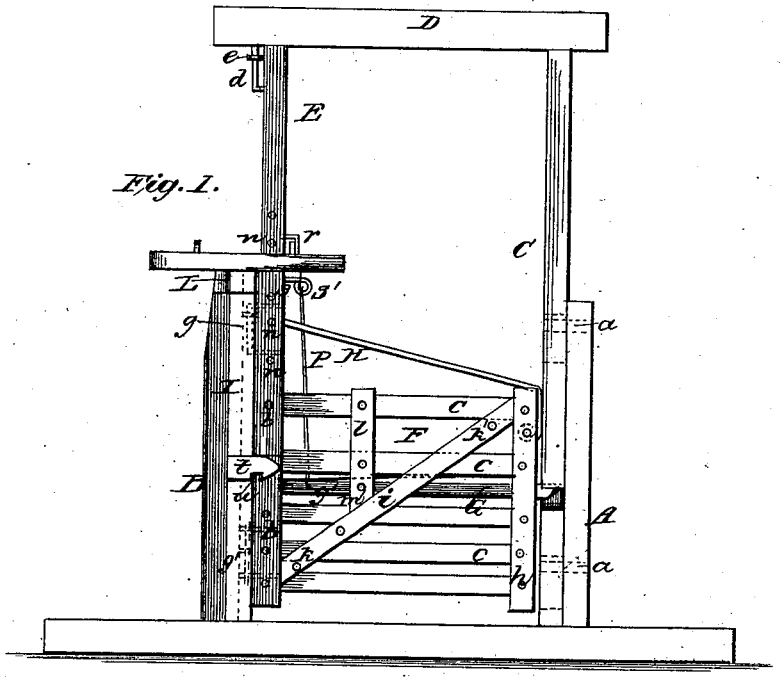
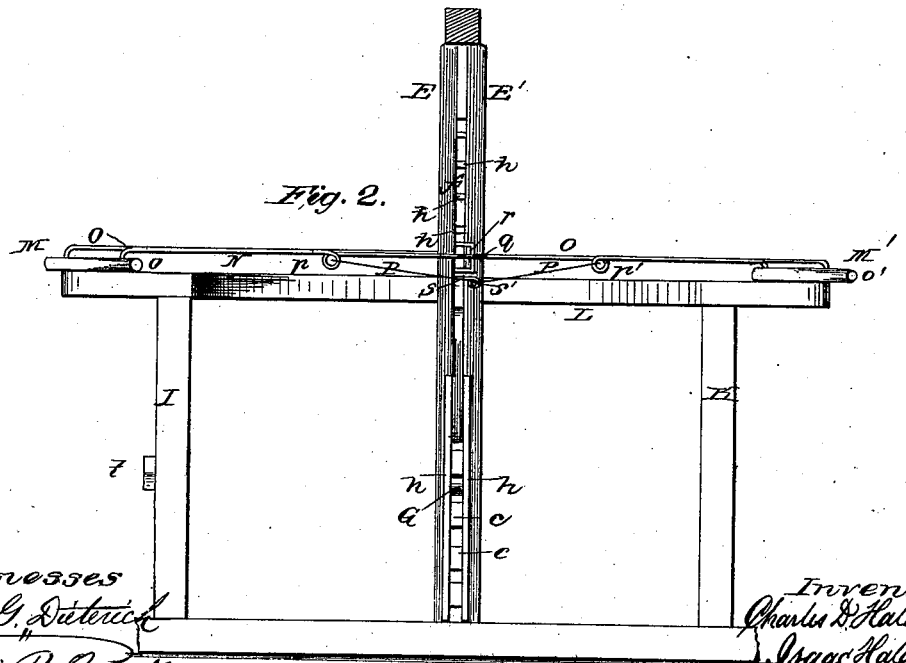


Fig. 2.



Witnesses
Fred. G. Dieterich
Jno. P. Brooks.

Inventors
Charles D. Haldeman
Isaac Haldeman
by Louis Bagger & Co.
their attorneys.

C. D. & I. HALDEMAN.

Gate.

No. 209,040. Patented Oct. 15, 1878.

Fig. 3.

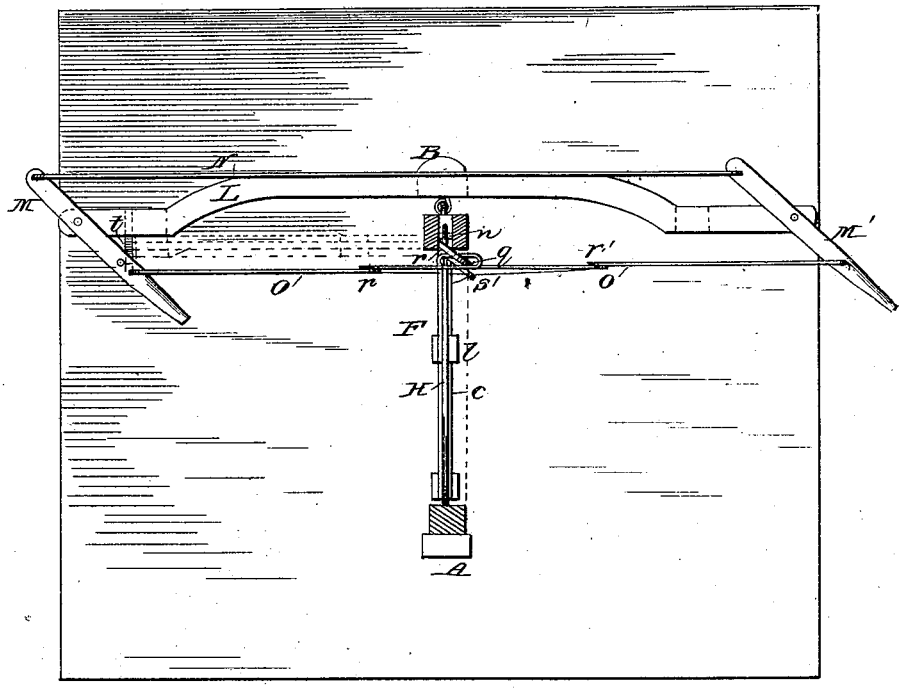
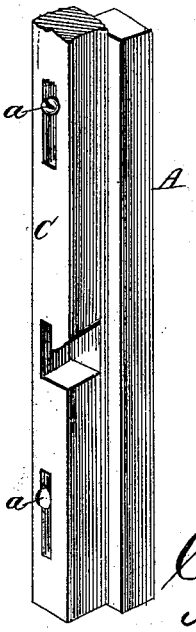


Fig. 4.



Witnesses:
Fred G. Dieterich
Jno P. Brooks

Inventor
Charles D. Haldeman
Isaac Haldeman
by Louis Bagger & Co
their Attorneys

UNITED STATES PATENT OFFICE.

CHARLES D. HALDEMAN AND ISAAC HALDEMAN, OF WEST LIBERTY, IOWA.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **209,040**, dated October 15, 1878; application filed June 11, 1878.

To all whom it may concern:

Be it known that we, CHARLES D. HALDEMAN and ISAAC HALDEMAN, of West Liberty, in the county of Muscatine and State of Iowa, have invented certain new and useful Improvements in Gates; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front view. Fig. 2 is a side elevation, part of one of the posts being broken away to better show the construction. Fig. 3 is a top view with the upper cross-beam partly removed, and Fig. 4 is a perspective detail view.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention consists in the construction of a gate which may readily be adjusted at varying heights from the ground, when snow-drifts or other causes render this desirable, and which may be opened or closed by a person on horseback or in a vehicle approaching the gate or leaving it without dismounting, substantially as hereinafter more fully described, and pointed out in the claims.

In the two sheets of drawings, A B are posts set into the ground for the support of the gate. C is another post, having longitudinal slots or mortises, by means of which it is secured upon post A, sliding upon bolts *a a*, (indicated in dotted lines,) by loosening and tightening which the post may be raised or lowered in its relation to post A, which is stationary.

Projecting at a right angle from the top of the vertically-adjustable post C is a cross-beam, D, having a downward-projecting staple, *d*, to which the upper end of the gate-post E is hinged by a projecting eye, *e*. Post E consists of two parallel planks, E. E′, so as to form a central slot or opening, *f*. To the rear edge of one of these planks are secured staples *g g′*, which work through eyes or bearings secured in post B, so that post E E′ has vertical up-and-down play in its relation to the stationary post B, upon which it is hinged.

The gate proper (denoted by the letter F) consists of a series of parallel slats, *c*, pivoted by bolts *b* at one end in the slot *f* of post E E′, and at the other end by similar bolts between two vertical slats, *h*, which constitute the front or latch side of the gate. On each side of the slats is a diagonal brace, *i*, these two braces being united at top and bottom by bolts *k k′*, which bear against the forward under side of the upper and the rearward upper side of the lowest of the slats *c*, respectively.

l is a vertical brace, for further strengthening the gate, and one of the bolts, *m*, of which serves as a fulcrum for the spring-latch G.

By this arrangement and combination of post E E′, pivoted slats *c*, front pieces, *h*, and braces *i*, the gate F may be raised or lowered without changing the position of posts C and E E′, and when thus raised or elevated the slats will be retained in their position by the braces *i i*, with their bearing-bolts *k k′*. To still further secure the gate in its elevated position, we employ a hooked rod, H, which passes diagonally from the front pieces, *h*, of the gate, between which it is hooked, up to the slot *f* between posts E E′, where the other end is hooked upon pins or bolts *n n n*, which admit of the adjustment of rod H so as to conform to the elevation of the gate.

I K are two posts secured firmly in the ground, one on each side of the gate, and united by a cross-beam, L, which passes across and is secured to the top of post B. At each end of beam L is pivoted a lever, M M′, having a projecting handle, *o o′*. Levers M M′ are united by two rods, N O, one of which, O, has two eyes, *p p′*, and a loop or bail, *q*, midway on the rod. Secured within and projecting from the slot *f*, between the posts E E′, is a keeper, *r*, and below that a short rod, *s*, terminating in an eye, *s′*, which reaches out a short distance beyond the keeper *r*.

P is a cord or chain, one end of which is secured in the eye *p* on rod O. It is then passed through the eye *s′* at the end of arm *s*, and down to the back part of the spring-latch G, where it is passed through a hole, *g′*, and then up again (on the same side of the gate) through eye *s′*, and back to eye *p′*, in which the other end is fastened. The central loop, *q*, takes with the keeper *r*, the latter passing through it.

It follows that when handle *o* of lever M is pulled, cord P will raise the latch, and thus unlock the gate before the middle loop, *q*, takes with the keeper *r*, which opens the gate after it has been unlocked. In other words, during the time the cord is being pulled to withdraw the latch from the catch the oblong loop is traveling on its keeper without taking or engaging with it, which does not occur until the latch has been unhooked, so that the gate is ready to be swung open.

t is an arm projecting from post I, and having a notch, *u*, which, when the gate is open, as shown in dotted lines in Fig. 3, engages with the latch, the latter being unhooked in closing the gate from this arm by the operation of cord P, in precisely the same manner as in unlocking the gate in opening. The levers M M′ are provided with perforations *v v*, by means of which the operating-rod O may be adjusted in proper position for working satisfactorily.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. The combination of post A with the vertically-adjustable frame C D, adjustable hinged post E E′, and post B, substantially as and for the purpose herein shown and described.

2. The combination of the hinged and adjustable post E E′, having slot *f*, with the hinged gate-slats *c*, end bars, *h*, and adjustable braces *i l*, substantially as and for the purpose herein shown and specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

CHARLES D. HALDEMAN.
ISAAC HALDEMAN.

Witnesses:
WM. E. GRAY,
D. W. FARRELL.