

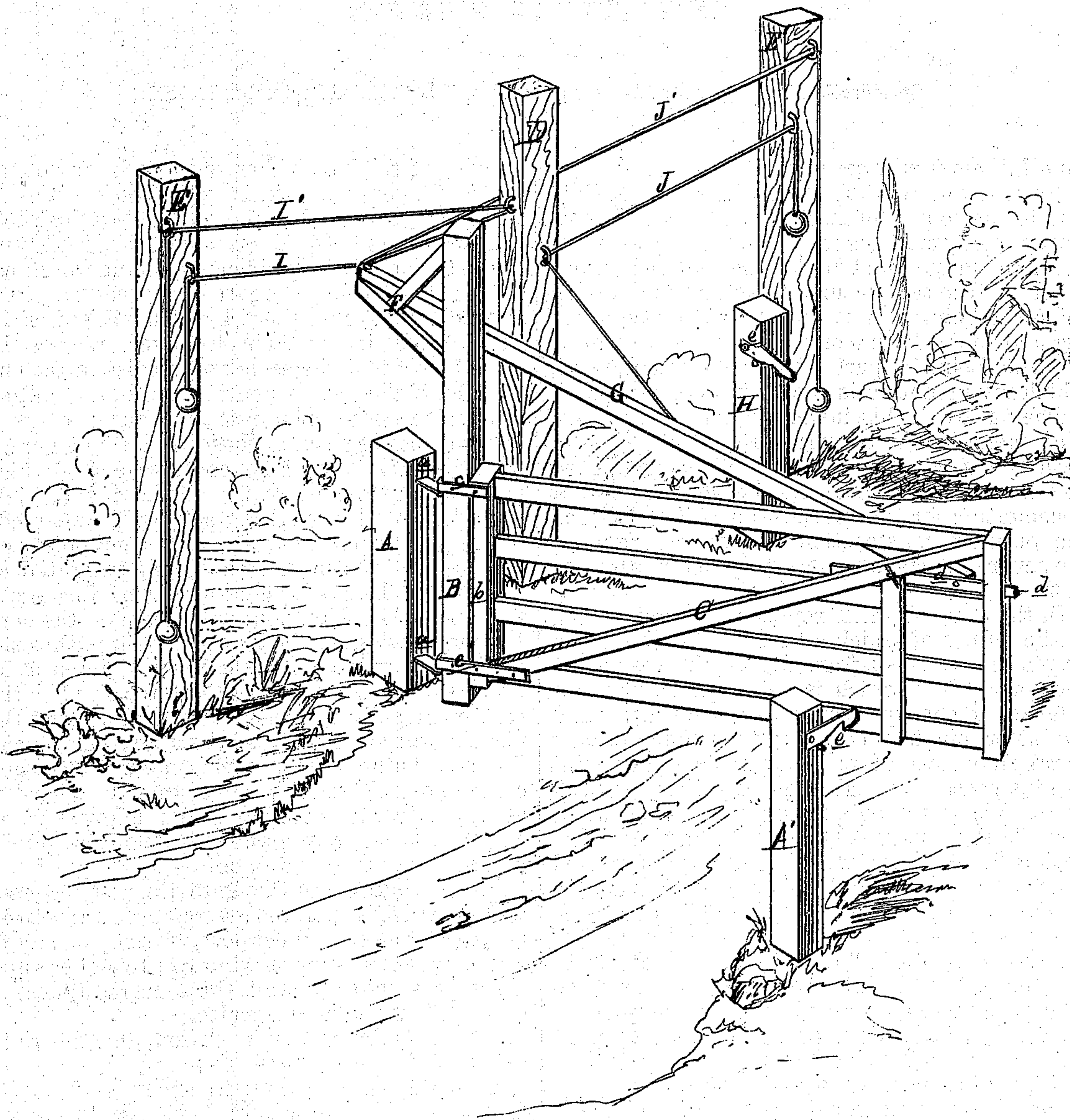
[130.]

BYRON SNYDER.

Improvement in Gates.

No. 119,421.

Patented Sep. 26, 1871.



ATTEST

Byron H. Church.
H. D. Everts.

INVENTOR

Byron Snyder.
Per. Atty.
Wm. S. Sprague

UNITED STATES PATENT OFFICE.

BYRON SNYDER, OF CLINTON, WISCONSIN.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. 119,421, dated September 26, 1871.

To all whom it may concern:

Be it known that I, BYRON SNYDER, of Clinton, in the county of Rock and State of Wisconsin, have invented a new and useful Improvement in Farm-Gates; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which my invention is shown in perspective.

The nature of this invention relates to an improvement in the construction of that class of farm-gates which is capable of being opened and closed by the occupant of a vehicle without dismounting for that purpose; and it consists in the peculiar construction and arrangement of the several parts, as more fully hereinafter set forth.

In the drawing, A A' represent the gate-posts, to the former of which a heel-post, B, is hinged by pintles *a*. C is a framed gate, the rear or inner upright *b* of which is held against the outer face of the heel-post by straps *c* passing around the latter, but in such a way that the gate may be raised or lowered and supported at any point by pins passed through the straps into the heel-posts. *d* is a latch-bolt, sliding in suitable guides in one of the horizontal bars of the gate, and projecting through a mortise in the outer upright; other mortises and guides should be provided, in which to place the bolt when the gate is raised. D is a post erected at one side of and in rear of the post A, and E E' are other posts at either side thereof and in line therewith, each of these three posts being provided with two staples, or preferably with pulleys, as shown. F is a forked brace, so secured by hooks or pins to the heel-post B that it may have a slight radial movement while projecting diagonally rearward therefrom. A latch-bar, G, connects the outer extremity of the brace with the latch-bolt *d*. H is a post erected at the side of the road, against which the gate swings when opened. It is provided with a gravity-latch, *e'*, which engages with the projecting end of the latch-bolt *d* and retains the gate when opened. A similar latch, *e*, is pivoted to the gate-post A' and locks it when closed. The rear end of the latch-bar being elevated, the

gravity of the bar pushes out the latch-bolt as far as its stops will permit. I is a cord, one end of which is attached to the rear end of the latch-bar, while the other is led through a guide-pulley on the post E, its pendent end being weighted, as shown. To open the gate in approaching from this side, pull on the cord I, which will swing the brace F a little, sufficient, however, to draw the latch-bolt *d* into the socket or mortise in the end upright of the gate, when the continued pulling swings the gate open, releasing the cord as it approaches the post H, whose latch *e'* will engage with the latch-bolt. I' is a cord, one end of which is secured to the extremity of the brace, while the other is led through a pulley on the near side of the post; thence across to a second pulley on the post E, its pendent end being weighted as the other. To close the gate, passing through it from the other direction, pull down on the cord I, which, swinging the brace a little, pushes the latch-bolt outward a little, until a notch in its upper surface comes under the latch *e'*, when the continued pulling causes it to shut against the post A', whose latch locks it, as above mentioned. J J' are similar cords, in like manner arranged on the posts D and E', except that the cord J is attached to the latch-bar about midway of its length, so that when pulled to open the gate it will draw back the latch-bolt.

The advantages of this gate are, first, the ease with which it is operated; second, the adjustability of the gate on the heel-post, whereby it may be raised above the snow in winter, or to let hogs and sheep pass under it; and, third, its cheapness in cost and durability in service.

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

The construction and arrangement of the posts A A', D, E E', and H, the heel-post B, hinged to the post A, and carrying the adjustable gate C, the brace F, latch-bar G, latch-bolt *d*, latches *e e'*, and weighted cords I, I', J, and J', all arranged and operating with relation to each other as herein described, for the purpose specified.

BYRON SNYDER.

Witnesses:

F. S. THOMAS,
R. W. CHEEVER.

(130)