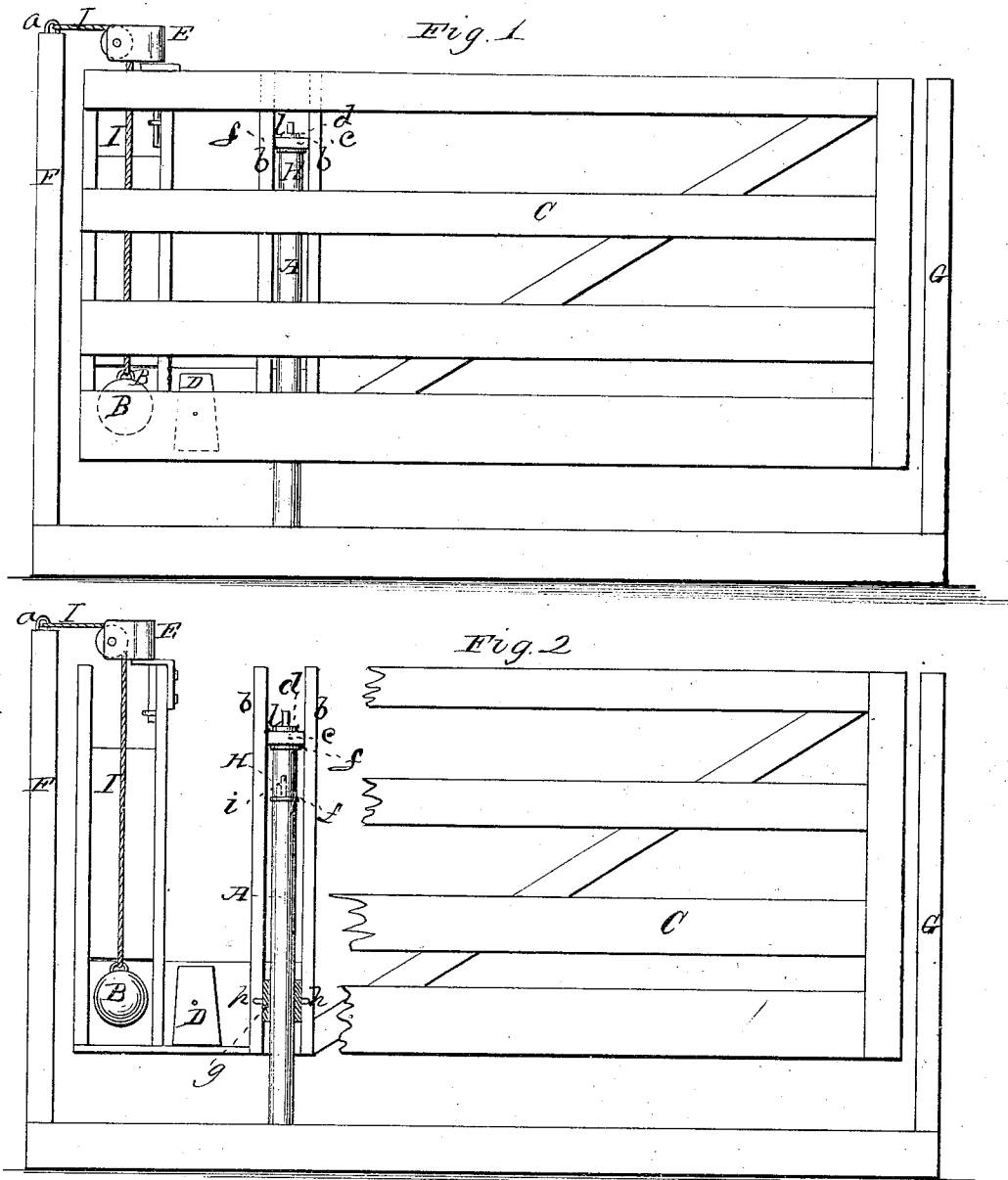


A. HALL.
Farm-Gates.

No. 153,072.

Patented July 14, 1874.



Witnesses:
H. H. Burton
A. C. Beecher.

Inventor:
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UNITED STATES PATENT OFFICE.

AMOS HALL, OF EAST RANDOLPH, NEW YORK.

IMPROVEMENT IN FARM-GATES.

Specification forming part of Letters Patent No. **153,072**, dated July 14, 1874; application filed June 18, 1874.

To all whom it may concern:

Be it known that I, AMOS HALL, of East Randolph, in the county of Cattaraugus and State of New York, have invented an Improved Farm-Gate; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making part of this specification—

Figure 1 being a side view of the gate; Fig. 2, a side view of the gate, with a portion broken away to show the construction thereof more distinctly.

Like letters designate corresponding parts in both figures.

My invention relates to that class of farm-gates which are poised upon a post and swung horizontally thereon, being automatically closed by a cord and weight; and my improvements consist in an improved arrangement of a cord and weight combined with a swivel-pulley for closing and partially balancing the gate; in an improved means of mounting the gate upon the post; and in a peculiar device for elevating the gate, when desired, for allowing small animals to pass under, while presenting a barrier to larger animals, and for avoiding obstructions by snow in winter, all substantially as hereinafter specified.

The gate C is constructed substantially as shown in the drawings, the main part being extended by the continuation of its rails beyond the sustaining-post A, to furnish a counterpoise or balancing portion. The lower rail, together with a bottom and side piece, reaching along the counterpoise-extension, serves as a box or holder to receive a sufficient counter-weight, D, to balance the gate, as required. At the rear end of the extension upright pieces are attached, forming a box or case, in which hangs suspended a weight, B, on the free end of a suspending-cord, I. The other end of this cord is attached at *a* to a post or other fixed support, F, by which the cord and weight are sustained. The cord runs over a pulley, E, which is attached to the upper part of the gate-extension, substantially as shown, and is swiveled thereon, so that the

pulley will automatically turn and keep in line with the cord I as the gate swings. The post F being in line with the gate when closed, the weight B as arranged causes the gate to close when it has been swung open in either direction. It also serves as part of the counter-weight to poise or counterbalance the gate. A little to each side of the vertical poise-line of the gate is an upright piece, and between these two upright pieces *b b* the post A is located. Near the upper ends of these uprights a cross-piece, *c*, having a tenon at each end, is framed into mortises in the uprights. In this cross-piece is an aperture to receive a flanged socket, *d*, into which enters a pintle, *i*, driven into the upper end of the post A, and thus the pivot-connection between the gate and upper end of the post is formed. There is also a washer, *f*, on the upper end of the post, on which the socket *d* of the gate rests, and thereby the gate is supported on the post, and turns with little friction. To keep the lower part of the gate steady and in position a ring, *g*, provided with projections *h h*, is driven up between the uprights *b b* of the gate near the bottom and held there. This ring fits around the post A, so as to turn freely thereon. For the purpose of elevating the gate, when it is desired to do so to allow small animals to pass under, or to avoid obstructions by snow, I provide one or more extensions, H, which has a socket in its lower end to fit over the pintle *i* of the post, and thus couple it thereto. This extension also has a pintle, *l*, on its upper end, to go into the socket *d* to form the pivot-connection with the gate. The washer *f* is placed on the upper end of this extension under the socket.

The gate is so constructed and arranged on the post A that it balances laterally as well as longitudinally thereon. Thus, with a firmly-set post, the gate swings with great freedom, and has very little tendency to lean the post out of a vertical position.

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

1. The combination, with a horizontal swinging and poised gate, of a weighted cord fixed

at one end and suspended over a swivel-pulley, substantially as and for the purpose herein specified.

2. The combination, with a horizontal swinging and poised gate, and sustaining gate-post having a pintle and washer at its upper end, of a flanged socket and ring with projections arranged in the frame of the gate, substantially as and for the purpose herein specified.

3. The combination, with a gate-post sus-

taining a horizontal swinging and poised gate; of an upper post-section having a detachable connection with the main post, and provided with a socket-pintle, substantially as and for the purpose herein specified.

AMOS HALL.

Witnesses:

J. H. BROWN,

WM. H. BRERETON, Jr.