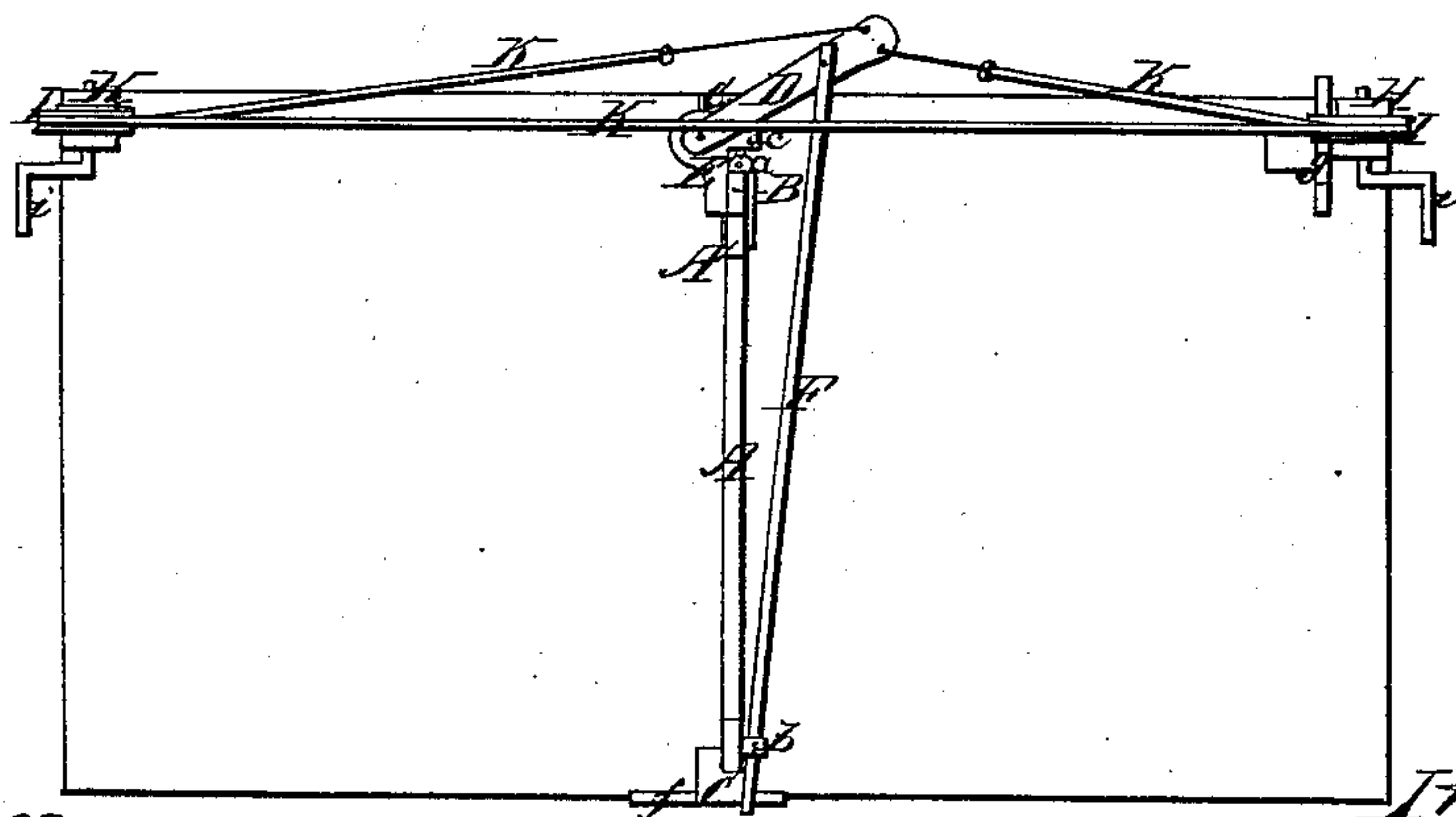
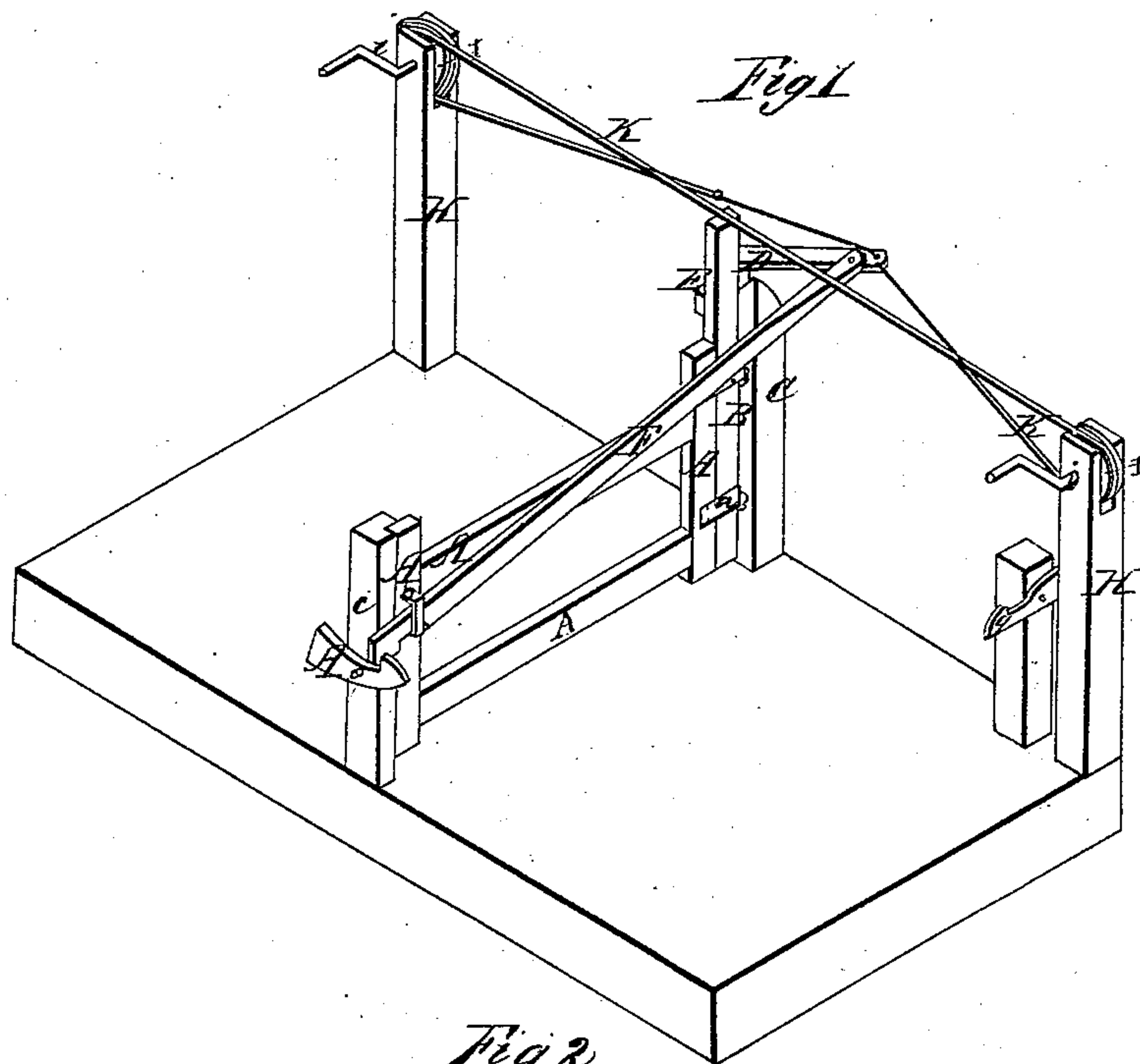


*B. Snyder,*  
*Automatic Gate,*  
*N<sup>o</sup> 84,653.* *Patented Dec. 1, 1868.*



*Witnesses.*  
*L. W. Nichols*  
*A. E. Gay.*

*Inventor.*  
*Byron Snyder*  
*By R. Dattshack,*  
*atty.*



BYRON SNYDER, OF CLINTON, WISCONSIN.

Letters Patent No. 84,653, dated December 1, 1868.

IMPROVEMENT IN FARM-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, BYRON SNYDER, of Clinton, of Rock county, in the State of Wisconsin, have invented certain new and useful Improvements in Farm-Gates; and I hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The nature of my invention and improvements consists in the construction and arrangement of an improved farm-gate, which is operated by the employment of the cranks and endless chain or band, below herein described, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a perspective view, and

Figure 2 is a vertical elevation.

The gate is supported by hinges ordinarily used for common swing-gates.

In the drawings—

A A is the gate.

C, the post, to which it is hung.

c', the latch-post.

f is the self-acting latch, pivoted thereto.

H H are posts, supporting the pulleys I I and cranks i i.

K K, the endless chain or band, passing around the pulleys I I, one strand of which is attached to the

outer end of the eccentric-lever D, the inner end of which is pivoted to the short lever E, which is rigidly attached to the heel-post B of the gate.

The outer end of the latch-bar F is pivoted to the vibrating end of the eccentric-lever D, so that when the endless band is put in motion, by rotating the pulleys I I in opening the gate, the oblique latch-bar F is drawn backward so as to disengage from the latch f, the gate being carried from left to right, and is held open by the self-acting latch g, and is released therefrom in a similar manner.

a a are sliding clasps, rigidly fixed to the post A of the gate, and loosely embrace the heel-post B, so that the gate is capable of vertical adjustment, to obviate obstruction by deep snows.

The gate is opened by rotating the cranks i i from left to right, and is closed by reversing the operation.

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

The rigid lever E, eccentric-lever D, and latch-bar F, in combination with the pulleys I I, cranks i i, endless band or chain K K, clasps a a, gate A A, posts B C c' H H, and latches f and g, when constructed substantially as described, to operate as specified.

BYRON SNYDER.

Witnesses:

O. C. GATES,

N. A. ROBBINS.