

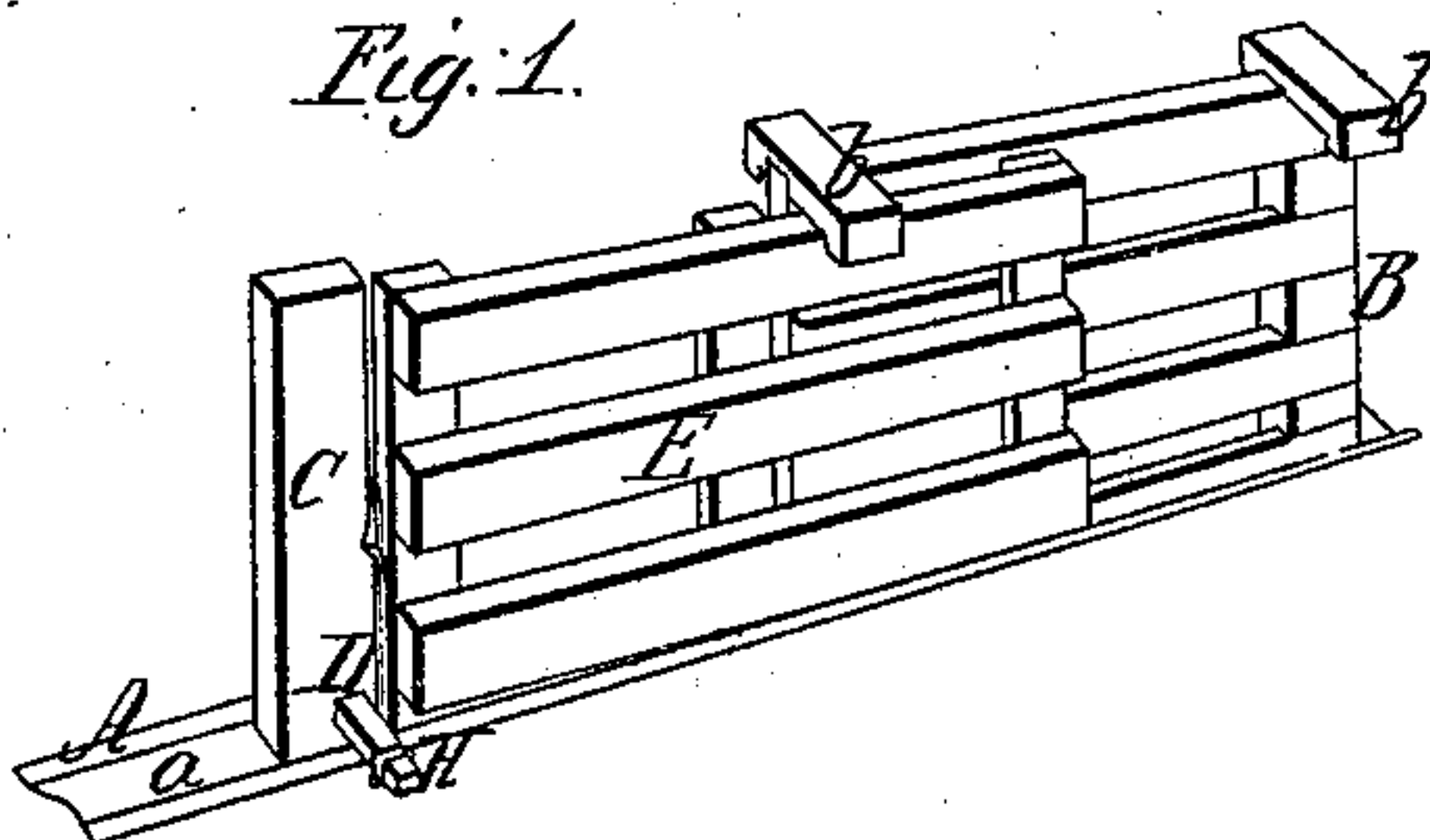
*H. S. Otis.*

*Gate.*

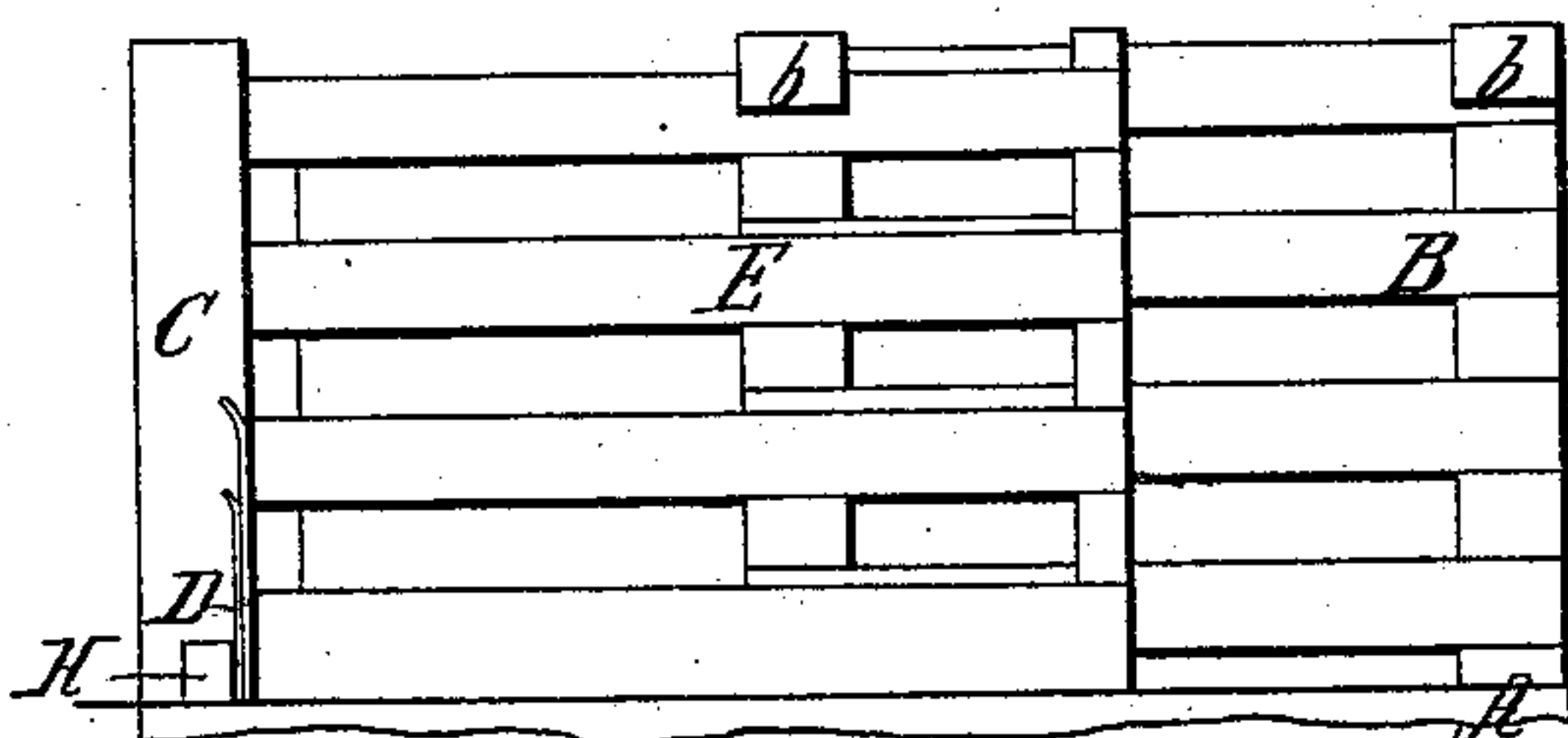
*N<sup>o</sup> 85,607.*

*Patented Jan. 5, 1869.*

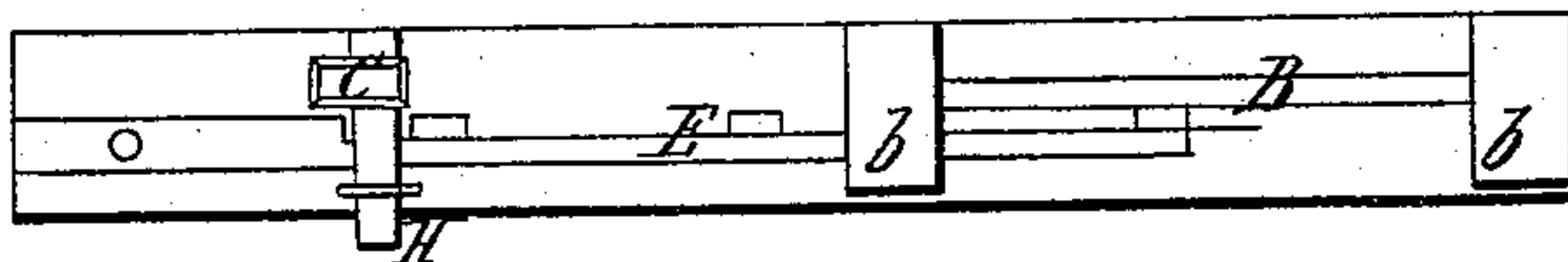
*Fig. 1.*



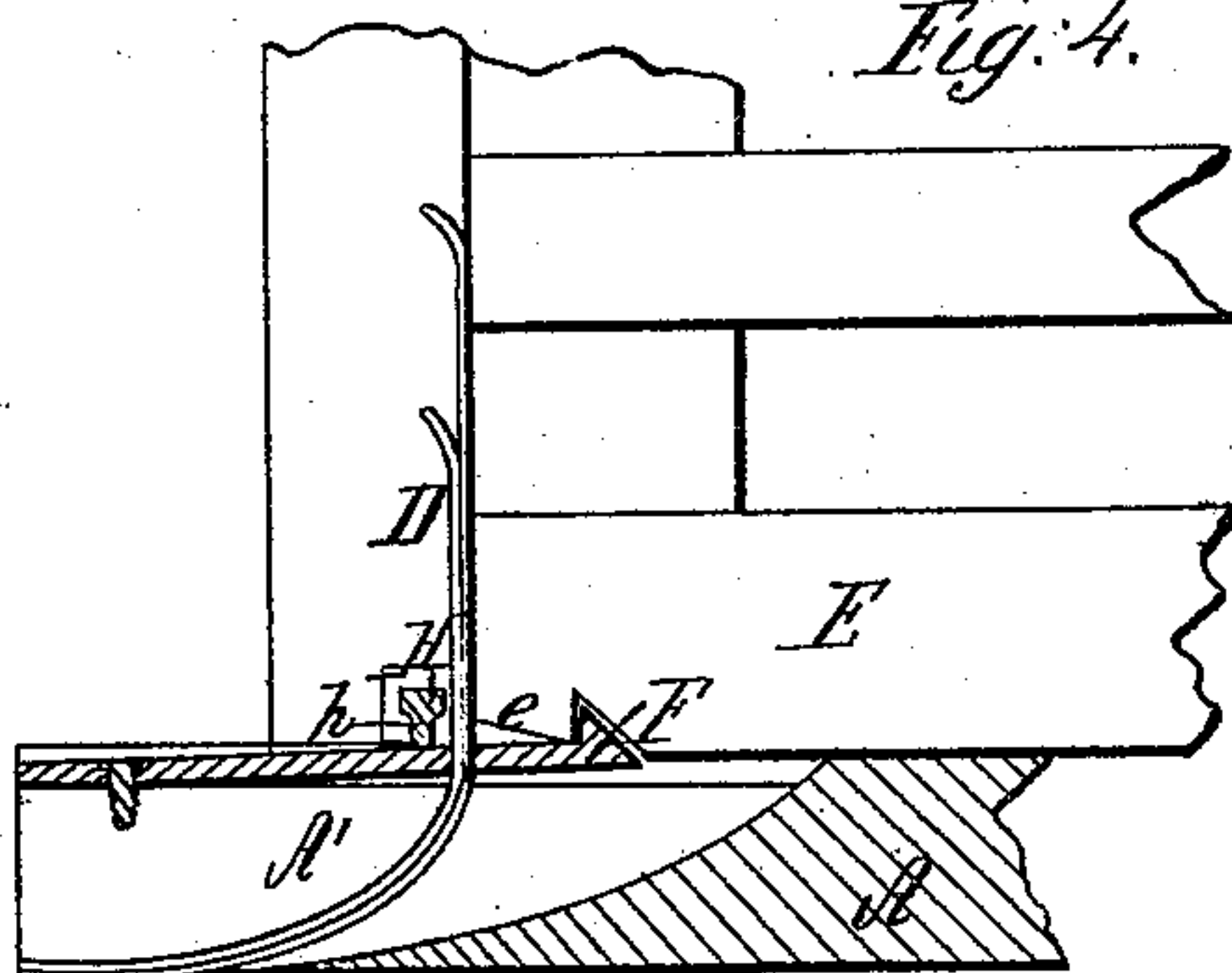
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses;*  
*S. J. Hayes,*  
*C. A. Matthews*

*Inventor,*  
*Henry S. Otis by*  
*H. W. Bunker atty.*



HENRY S. OTIS, OF PRESCOTT, WISCONSIN, ASSIGNOR TO HIMSELF  
AND JOHN GREEN.

*Letters Patent No. 85,607, dated January 5, 1869.*

**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, HENRY S. OTIS, of Prescott, in the county of Pierce, and State of Wisconsin, have invented new and useful Improvements in Gates; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improved gate, and consists mainly in the employment of a spring peculiarly arranged for the purpose of opening it, the construction being such that the gate is held in position, when closed, by means of a catch, which is operated through the medium of a foot-lever, as will be fully described hereinafter.

In the drawings—

Figure 1 represents a perspective view,

Figure 2, a side elevation,

Figure 3, a plan view, and

Figure 4, a sectional view of my improved gate.

To enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe fully its construction and manner of operation.

A represents the base-beam, provided with the groove *a*, in which the bottom of the gate slides.

B represents a section of the fence provided with the guides *b b*, by means of which the upper part of the gate is sustained in place.

C represents the gate-post.

D represents a spring, of suitable construction, securely attached, at one end, to the under side of the

beam A, which is so arranged, in the recess A' provided for it, that the gate E, in closing, causes it to assume a perpendicular position.

F represents a spring-catch, which engages with the catch *e* upon the gate E when the gate is closed.

H represents a foot-lever, having the projection *h* resting upon the spring-catch F, as is clearly shown in fig. 4.

The operation of my improved gate is as follows:

It is closed by hand, the gate being drawn up towards the post until the catch hooks over the spring-catch F. By this operation the spring D is forced into a perpendicular direction, and bears strongly against the gate.

When it is desired to open the gate, it is simply necessary to depress the foot-lever upon either side. By this means the catch F is disengaged from the catch *e*, and the gate is thrown open by the force exerted by the spring in returning to its natural position.

Having thus fully described my invention,

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

A gate, of substantially the described construction, when operated by means of the spring D, catch F, and foot-lever H, as and for the purpose set forth.

This specification signed and witnessed, this 2d day of November, 1868.

HENRY S. OTIS.

Witnesses:

FRANCIS HOYT,  
JOHN GREEN.