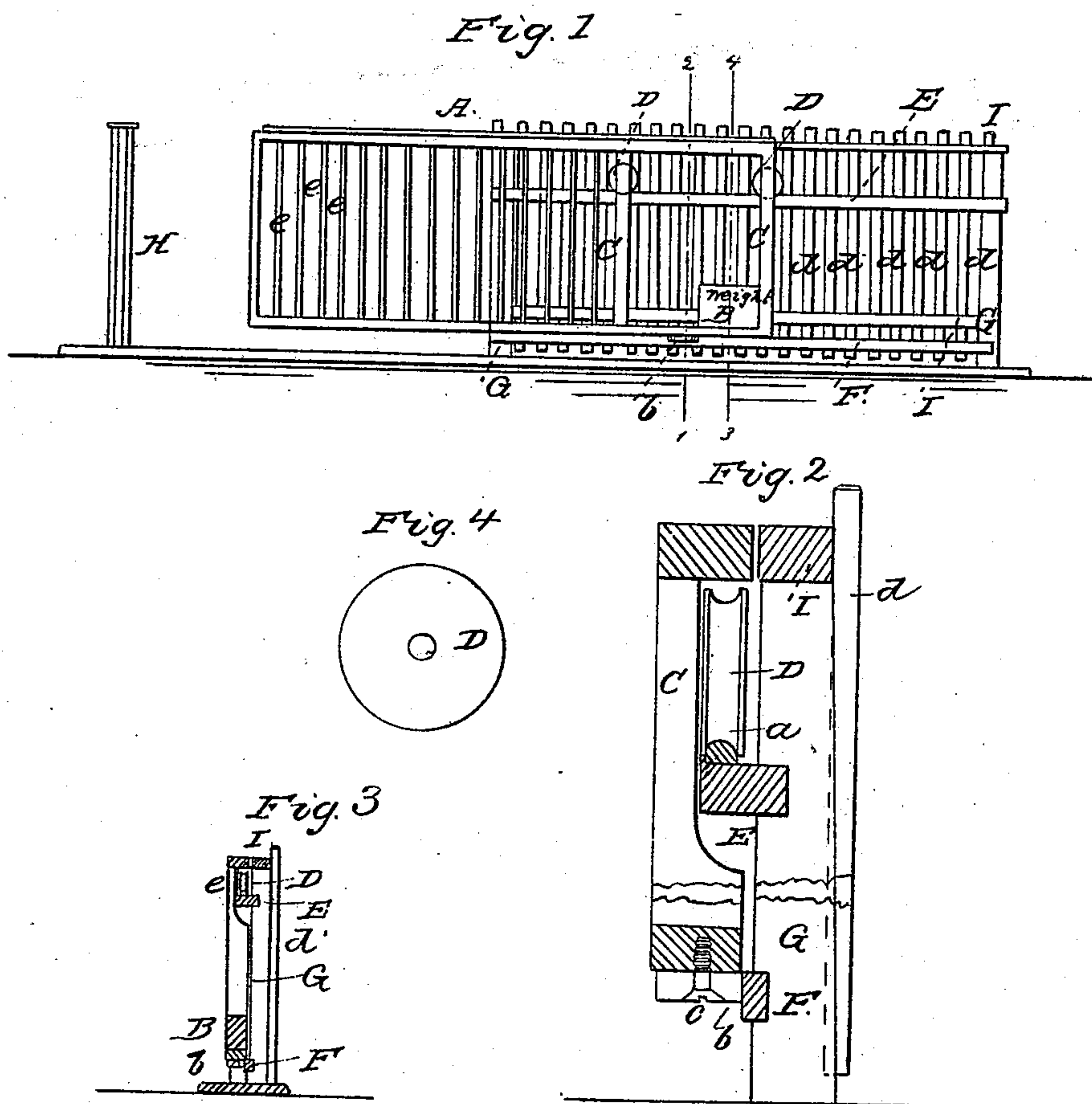


F. F. BLOOD.

Gate.

No. 40,902.

Patented Dec. 15, 1863.



Witnesses  
Ernest Hunt  
W. Robinson

Inventor  
Franklin F. Blood



# UNITED STATES PATENT OFFICE

FRANKLIN F. BLOOD, OF JANESVILLE, WISCONSIN.

## IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. 40,902, dated December 15, 1863.

*To all whom it may concern:*

Be it known that I, FRANKLIN F. BLOOD, of the town of Janesville, county of Rock, and State of Wisconsin, have invented a new and Improved Mode of Constructing and Operating Fence-Gates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, like characters referring to like parts in each figure.

Figure 1 is an elevation and side view of the gate, and a section of fence adjacent, to which is attached, by means of bolts or other fastenings, the running-ways E F. Fig. 2 is a vertical section on an enlarged scale from Fig. 1 on line 1 2. Fig. 3 is also a vertical section on line 3 4, and on the same scale as Fig. 1. Fig. 4 represents on an enlarged scale a side view of one of the hanging sheaves D, Fig. 1.

A, Fig. 1, is the gate, represented as partly open.

*e* are balusters or pickets, which may be formed of wood or iron or other suitable material.

C are standards, to which are attached the sheaves D, which run on the running-ways E, Fig. 1, shown in cross-section at Fig. 2, in which *a* represents the track, which may be made of wood or metal, as the constructor shall elect.

*b* is a friction-roller running against the

running-way F, and secured to the bottom of the gate by the screw *e*.

B, Figs. 1 and 3, is a balance-weight of a specific gravity sufficient to prevent the gate from tipping down at the outer end when shut against the post H. This balance may be obtained in various ways, either by lengthening the gate, by sealing up between the standards C and filling the space with sand, gravel, or other substance, or by the method shown and described herein.

G are posts.

I are the rails, to which are attached the pickets *d*.

The great simplicity of construction, ease, and compactness of operation, combined with evident durability and consequent utility, are the main commending qualities of this gate.

I do not claim a balanced sliding gate irrespective of the manner of balancing or sliding the same; but

I do claim—

A gate balanced by a weight, B, or by a box cased up on the standards C and filled with sand or other substance, when combined with a friction-roller, *b*, and hanging sheaves D, and used for the purposes as herein described and set forth.

FRANKLIN F. BLOOD.

Witnesses:

LEWIS HUNT,  
W. ROBINSON.