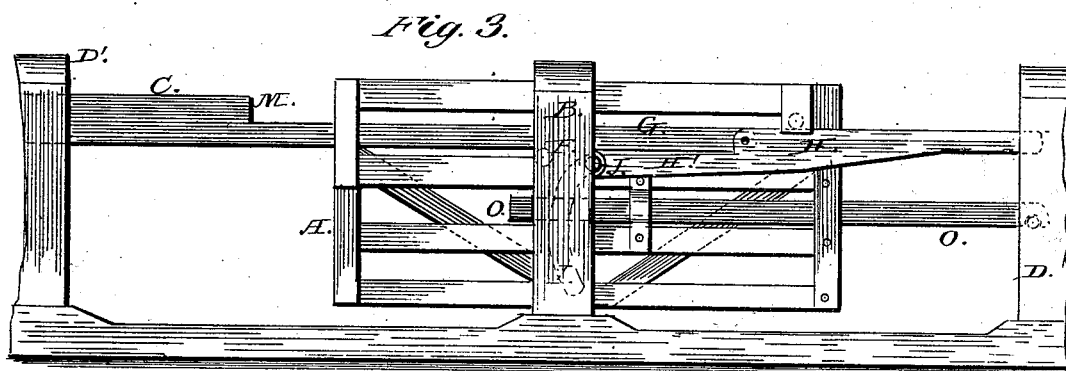
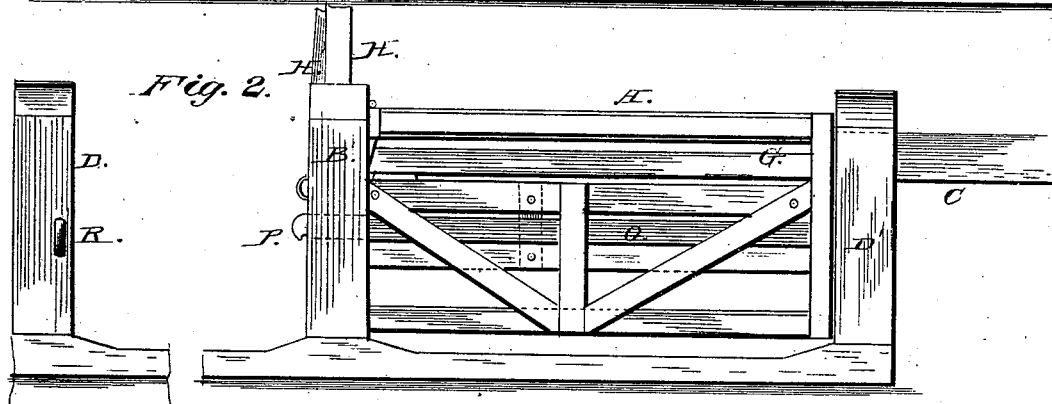
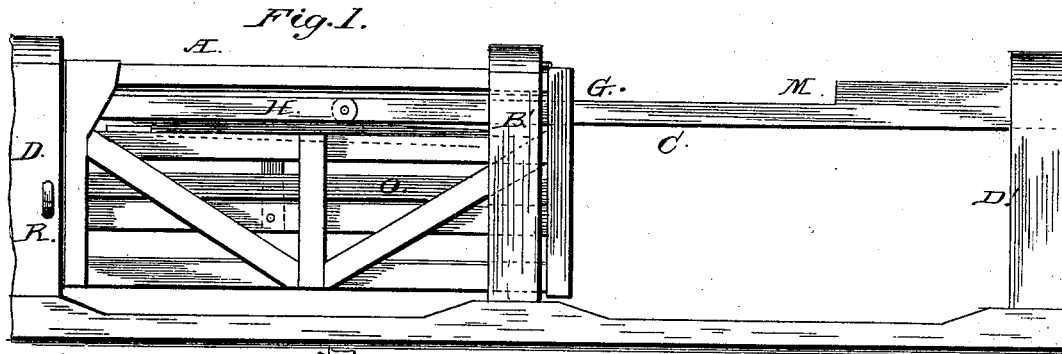


J. A. KNICKERBOCKER.  
Gate.

No. 215,758.

Patented May 27, 1879.



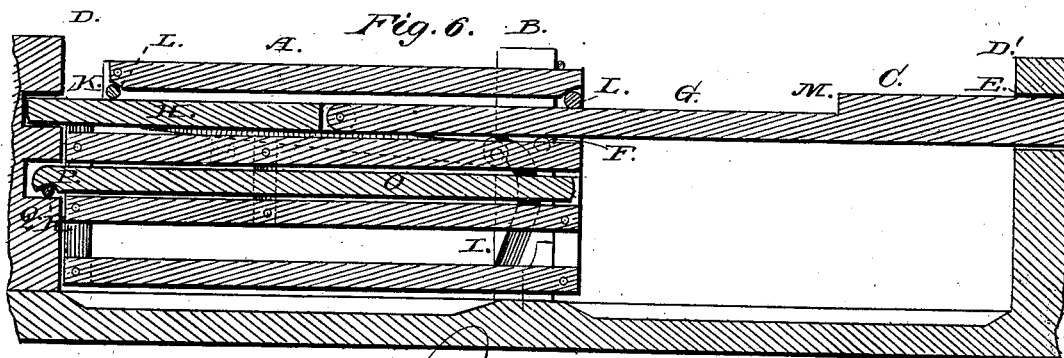
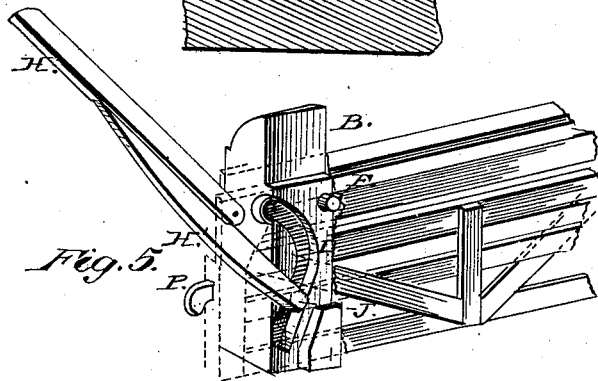
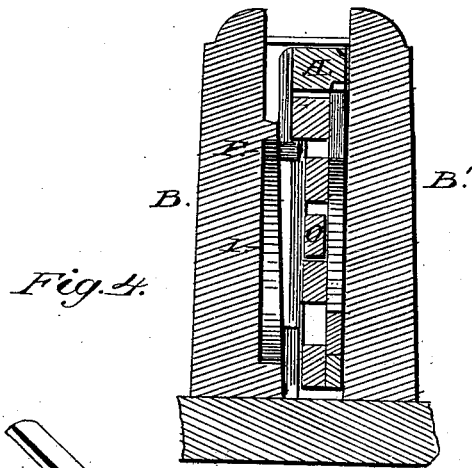
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*J. R. Littell,*

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# UNITED STATES PATENT OFFICE

JAMES A. KNICKERBOCKER, OF MAPLE RAPIDS, MICHIGAN, ASSIGNOR OF  
ONE-HALF HIS RIGHT TO JOHN F. HUBBARD, OF SAME PLACE.

## IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **215,758**, dated May 27, 1879; application filed  
April 9, 1879.

*To all whom it may concern:*

Be it known that I, JAMES A. KNICKERBOCKER, of Maple Rapids, in the county of Clinton and State of Michigan, have invented certain new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view. Fig. 2 is a side view, showing the gate open. Fig. 3 is a view taken from the opposite side, the gate being shown partly open. Fig. 4 is a cross-section, taken through the central posts. Fig. 5 is a detail view, in perspective, of the pivoted sliding bar, with its operating mechanism; and Fig. 6 is a longitudinal sectional view.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to sliding gates; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, A represents the gate, which slides between two posts, B B', upon a beam, C, supported upon two posts, D D', arranged, as shown in the drawings, one on each side of the central posts, B B'. The beam or bar C slides in a mortise, E, in the post D' and upon a roller, F, journaled to the inner side of post B. It is composed of two parts or pieces, one of which, G, slides, as described, while the other part, H, is hinged to the end of the piece G in such a manner as to be capable of being raised to a vertical position, as represented in Fig. 2 of the drawings. The said bar H is hinged to bar G at a point between the posts B B' and D, and it is provided with an extension, H', extending to the post B, which is provided with a groove, I, to accommodate a roller, J, journaled upon the end of the extension of bar H.

The post D is provided with a recess, K, to receive the end of bar H, thus supporting it

in such a manner that the gate may rest thereupon when closed. The gate is provided with rollers L L, by which it slides upon the bar G H, the main part of which, G, is provided with a shoulder, M, located at a point between the posts B B' and D', the distance between which and the point at which the part H is hinged to the bar G is equal to the width of the gate.

When closed the gate occupies the position between posts B B' D represented in Fig. 1 of the drawings. To open it, it is slid laterally upon the bar C in the direction of the post D'. When the shoulder M upon said bar is reached the end of the portion G of said bar is slid through the mortise E in post D'. At the same time the hinged bar H, which forms a portion of the bar C, is gradually elevated to a vertical position, as shown in Fig. 2, such movement being accomplished by the roller J traveling in the groove I in post B. To close the gate, the operation is simply reversed.

O is a rail sliding between two of the rails of the gate, and having a hooked end, P, fitting in a recess, Q, in the post D, where it may be secured by a catch, R. When it is desired to so adjust the gate as to prevent the passage of horses and cattle, but so as to admit hogs, sheep, &c., the end of the rail O is secured in the recess Q, and the gate slid open until the shoulder M is reached. The rail O and bar H will thus remain closed for the purpose above stated.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of sliding beam C, composed of the posts B B' and the bar G, having shoulder M, and hinged bar H with the gate A, arranged to slide upon said beam, substantially as and for the purpose herein set forth.

2. The combination of the posts B B', the former having groove I and roller F, post D', having mortise E, and sliding beam C, composed of the bar G, having shoulder M, and hinged bar H, having extension H', provided

with roller J, with the gate A, arranged to slide upon said beam C, substantially as and for the purpose herein set forth.

3. The combination, with a sliding gate arranged substantially as described, of the bar O, arranged to slide between two of the rails of said gate, and having hooked end P, and the post D, having recess Q and catch R, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAS. A. KNICKERBOCKER.

Witnesses:

ISAAC HEWITT,  
E. C. HUBBORD.