

C. Hart,

Farm Gate.

No. 100620.

Patented Mar. 8, 1870.

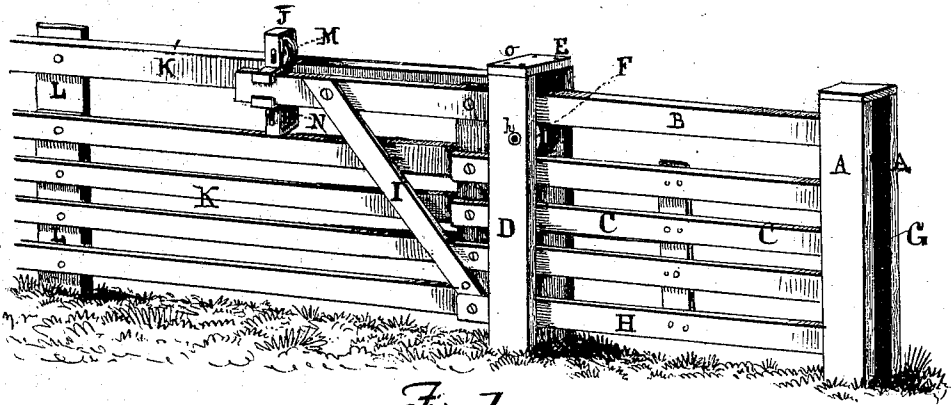


Fig. 1

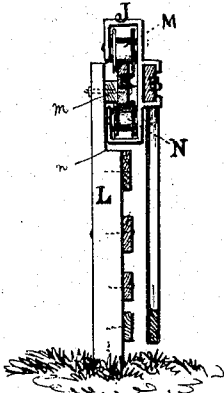


Fig. 2.

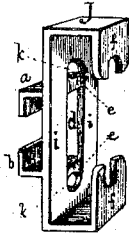


Fig. 3.

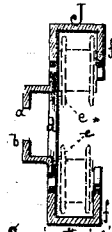


Fig. 4

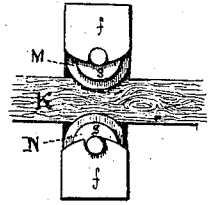


Fig. 5.



Fig. 6.

Witnesses  
 Henry A. Wells  
 W. A. South

Calvin Hart  
 Inventor

# United States Patent Office.

CALVIN HART, OF FARMINGTON, ILLINOIS.

Letters Patent No. 100,620, dated March 8, 1870.

## 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, CALVIN HART, of Farmington, in the county of Fulton, and in the State of Illinois, have invented a new and useful Improvement on my Farm-Gate, which was patented to me on 29th June, 1869, No. 92,046; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view.

Figure 2, an end elevation.

Figure 3 perspective view of roller-case or "clasp."

Figure 4, side elevation of the latter.

Figure 5, front view of roller-case.

Figure 6, friction-wheel or flanged roller.

My invention is intended as an improvement upon my former patent, and consists in constructing the side of the roller-case with a plate having the clasp by which the case is secured to the rail of the gate cast therewith, or made a part thereof, and providing said plate with a slot or recesses, so as to allow of the flanged rollers being placed properly in position within said case, the said flanged rollers being provided with shouldered axles to fit suitable bearings therein, the object being to remedy the defective working of the clasp and rollers in my former patent.

L E represent the posts, to which the board fence K is attached.

D is a post, at a proper distance from the fence-post E, and forming one jamb of the gate, and between which two the gate slides.

A A are two other posts, forming the other jamb of the gate, and on the same line as the posts D E.

C is the gate, which runs between the posts D E and A A.

The upper rail B of the gate is made longer than the other rails of the same, and runs side by side with the upper rail K' of the fence, and is connected with the bottom of the gate by a diagonal brace, I.

F is a friction-roller with flanged sides, and shouldered on each side, outside of the flanges, as seen in fig. 6, &c., pivoted in metal bearings in the posts D and E. This roller F carries the gate, the upper rail of the latter running in the recess of the roller between the flanges.

J is a metal case, having two flanged friction-rollers pivoted in recesses at either end, one above the other, and separated by and retaining between them the upper rail of the fence K.

A clamp, *a b*, projecting from the back of the case, grips the corresponding uppermost rail of the gate, to which it is attached or driven on.

The construction of the roller-case is as follows:

See fig. 3, where *i i* represent the back of the case, in which is a pivot or bearing at either end for the respective rollers, the corresponding pivots being situated one in each of the return-ends *f* of the case. A slot or depression, *e*, leads from the center of the back of the case up to the pivot-holes *k k*, the slot being cut at the center of the case entirely through the metal, or only partially, as convenience may dictate, the slot being for the purpose of allowing the ends of the axle of pulley or rollers to be passed into place, and being once in, the rail K of the fence secures them.

L is a post, which may or may not be within the range of the sliding of the gate. In case it is necessary to be so close, a portion of the upper part, next to the rail K', is cut away, and a block of wood, *m*, set between it and the upper rail. This allows the rollers M N to pass freely.

I claim, as an improvement on my farm-gate, and as my invention—

1. The roller-case J, with back plate *i*, provided with slot *d*, depressions *e e*, and clasps *a b*, constructed and applied in combination with friction-rollers M N, for the purposes of a farm-gate, substantially as described.

2. The combination of the flanged rollers M N, having shouldered axles *g* with the case J, as constructed, and the rails K' and B of the fence and gate, substantially as described.

In testimony that I claim the foregoing, I now have hereunto set my hand this 27th day of September, 1869.

CALVIN HART.

Witnesses:

HENRY W. WELLS,  
W. A. LOVETT.