

M. GUNSHENAN.
Farm-Gate.

No. 162,059.

Patented April 13, 1875.

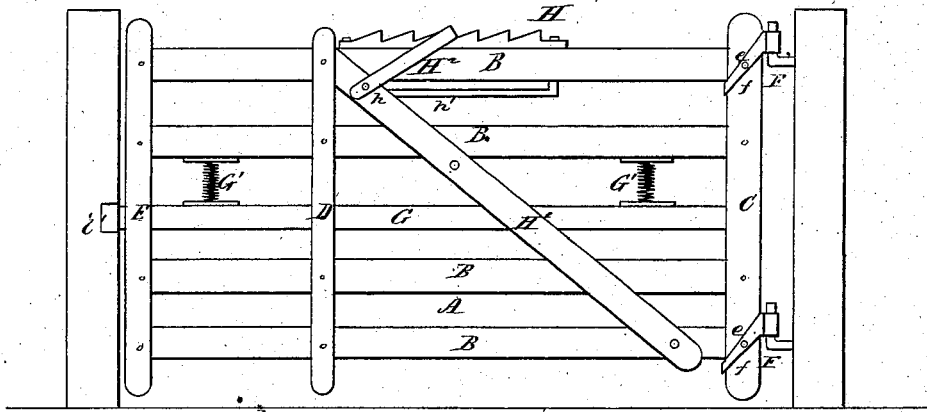


Fig 1

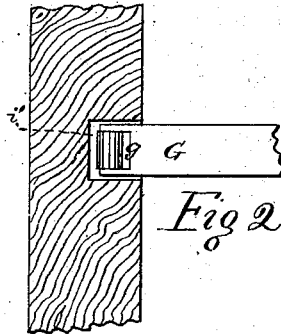


Fig 2

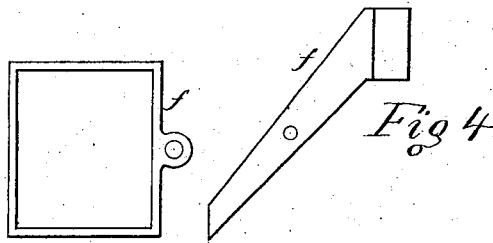


Fig 3

Fig 4

Witnesses
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UNITED STATES PATENT OFFICE.

MICHAEL GUNSHENAN, OF NEW YORK, N. Y.

IMPROVEMENT IN FARM-GATES.

Specification forming part of Letters Patent No. **162,059**, dated April 13, 1875; application filed November 25, 1874.

To all whom it may concern:

Be it known that I, MICHAEL GUNSHENAN, of New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a side elevation of the gate. Fig. 2 is a vertical section of latch-post, showing end of latch with anti-friction roller. Fig. 3 is a top view, and Fig 4 a side view, of the oblique-sided brace-hinge section. This invention has relation to farm-gates, and particularly to that class in which the horizontal bars and upright battens of a laterally-swinging hinged gate are pivoted together, so that the forward end of the gate may be raised and vertically adjusted without displacing the hinges.

The said invention consists in the herein-after-described novel construction, arrangement, and combination of parts, having reference to, first, the devices whereby the gate is adjusted vertically; secondly, the hinges whereby the inner end of the gate is supported against its tendency to sag.

Referring to the accompanying drawings, A designates a hinged swinging gate, having the horizontal bars B pivoted to the battens C D E, so that the forward end of the gate may be raised without interfering with the operation of the hinges. F F designate the hinges, of which the sections *f f* consist of rectangular or other shaped loops, having oblique sides and horizontal ends. These sections are secured to the battens C by a single bolt or pin, *e*, through each and through the battens, and embrace the latter diagonally, as shown, so as to cause the ends to impinge against said battens on opposite sides thereof and respectively above and below the bolt *e*, and their forward and lower ends to pass under and support the top and bottom rails of the gate. This arrangement causes the hinge-sections to brace themselves and the gate in such a manner as to prevent sagging, and thus enhance the strength and durability of the latter. G designates the latch-bar, suspended from one of

the rails by means of the flexible elastic hangers G', which allow it to be moved horizontally and automatically throw it forward for engagement with the keeper-groove. *g* is an anti-friction wheel upon the end of the latch-bar, adapted to travel upon the beveled entrances *i* to the keeper-notch *i'*, so that as the gate is closed the latch will be pushed back to allow it to lock.

The latch-bar may, if desired, be provided with a handle, or other means for convenient manipulation.

H designates a rack secured to the top rail, and H¹ a diagonal bar or brace, carrying a loop or dog, H², which, being thrown back upon the rack will, when the gate is raised, engage therewith and prevent the latter from falling. By means of said rack the gate may be held at any elevation. To prevent the gate, when down, from being lifted by small cattle, the loop or dog H² is thrown forward over the battens D, or their equivalents, against which, it will be observed, the brace H¹ abuts. The brace H¹ is pivoted to the bottom rail of the gate, and carries a stop-pin, *h*, which travels through a staple, *h'*, or slotted plate attached to the top rail, or through a slot in the rail, the object of which is to limit the movement of the brace. Although this hinge is regarded as new in itself, the purpose herein is to protect it in the use for which it is especially adapted, viz: sustaining a farm or other large gate having a tendency to sag.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The band-hinges F, formed with upwardly and rearwardly inclined side pieces *f*, in combination with the battens C and rails B of a farm-gate, substantially as herein specified.

2. The combination of the pivoted diagonal bar or brace H¹, loop H², rack H, and battens or stops D, substantially as described and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of November, 1874.

MICHAEL GUNSHENAN.

Witnesses:

THOS. A. CONNOLLY,
JOS. B. CONNOLLY.