

UNITED STATES PATENT OFFICE.

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GATE.

'SPECIFICATION forming part of Letters Patent No. 293,659, dated February 19, 1884.

Application filed June 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT E. MASON, a citizen of the United States, residing in the county of Vernon and State of Missouri, have
5 invented certain new and useful Improvements in Sliding and Swinging Gates; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part
10 of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of a gate embodying my invention, showing the gate in two different positions in dotted lines; and Fig. 2 is a detail view, in perspective, of the hanger.

The present invention has relation to that class of sliding and swinging farm-gates suspended between the gate-posts by a swivel-hanger.

Previous to my invention it was common to suspend the gate, by a hanger consisting of two straps pivoted at their lower ends, to the sides of the gate, and at their upper to a swivel, consisting of a block having a swivel-pin projecting from its upper end, secured to a cross-piece at the top of the two gate-posts by means of a cross-rod passing through a hole in said pin. In the above construction there
30 were no means provided by which the position of the gate with relation to the gate-posts could be adjusted, as the swivel-pin and cross-rod would not admit of this adjustability. The object of the invention, therefore, is to provide this swivel-pin with screw-threads, forming what I term a "screw-bolt," of sufficient length, and also to employ an adjusting screw-nut, by which means the position of the gate may be changed or rendered vertically adjustable as circumstances may require, as will be hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, A represents a farm-gate having pivoted to each side thereof the lower ends of strap *b*, which form together the hanger for said gate. The upper ends of the straps *b* are rigidly fastened to the projecting ends of a bolt, *a*, which loosely passes through a horizontal sleeve, *c*, of cast
50 metal, thus forming a pivotal connection be-

tween the sleeve and the ends of the hanger-straps. The sleeve *c* has an upwardly-projecting screw-bolt, *e*, which passes through the cross-brace B, connecting the two posts *c* at their upper ends. This screw-bolt also passes
55 through a friction-plate, *f*, secured to the upper side of the cross-brace, the hanger-sleeve *c* of the swivel being held to the cross-brace by screw-nut *g*.

Between the nut *g* and the plate *f* is interposed a suitable washer, *k*, and between the sleeve *c* and under side of the cross-brace B is a similar washer, *d*, these washers preventing the sleeve and nut from any undue friction. Especially are they important with the sleeve,
65 as they hold it from contact with the under side of the cross-brace, thus rendering it more easily operated.

The gate A is of the ordinary form, and is retained closed by the engagement of the outer
70 end of one of the slats *h* with a keeper or staple *i* in the outer gate-post, D.

The hanger or straps may be pivoted to the gate at any desirable angle from a perpendicular, and at or near its longitudinal center, thus
75 being more evenly balanced than were the straps pivoted to the lower one of the gate-rails, and the cumbersome weight—such as is usually employed—and also extended top-rail are rendered unnecessary.

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

A sliding and swinging gate having pivoted to the sides of its central rail suitable
85 hanger-straps, the upper ends thereof being pivoted to a swivel-connection, consisting of a horizontal sleeve having a screw-threaded bolt extending up through the cross-brace of the gate-posts, and held thereto by an adjusting
90 screw-nut, by which means the gate is rendered vertically adjustable, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence
95 of two witnesses.

ROBERT E. MASON.

Witnesses:

F. O. COLLINS,
C. T. MILLER.