

(No Model.)

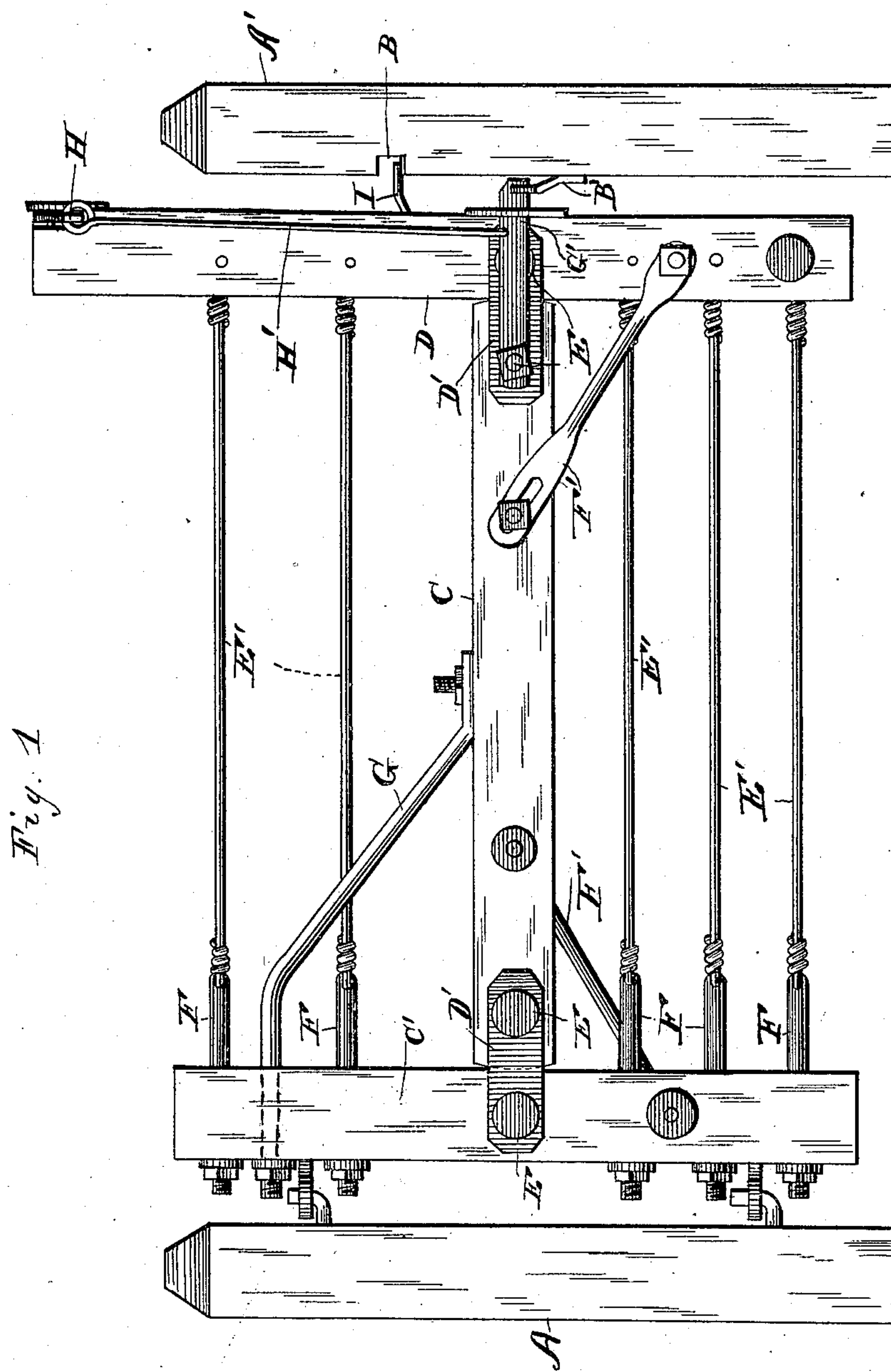
2 Sheets—Sheet 1.

D. COLLINS.

GATE.

No. 294,853.

Patented Mar. 11, 1884.



WITNESSES

Edwin L. Bradford.
Chas. L. Coombs.

INVENTOR

Dennis Collins.
Carlin H. Jones
his Attorneys.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2

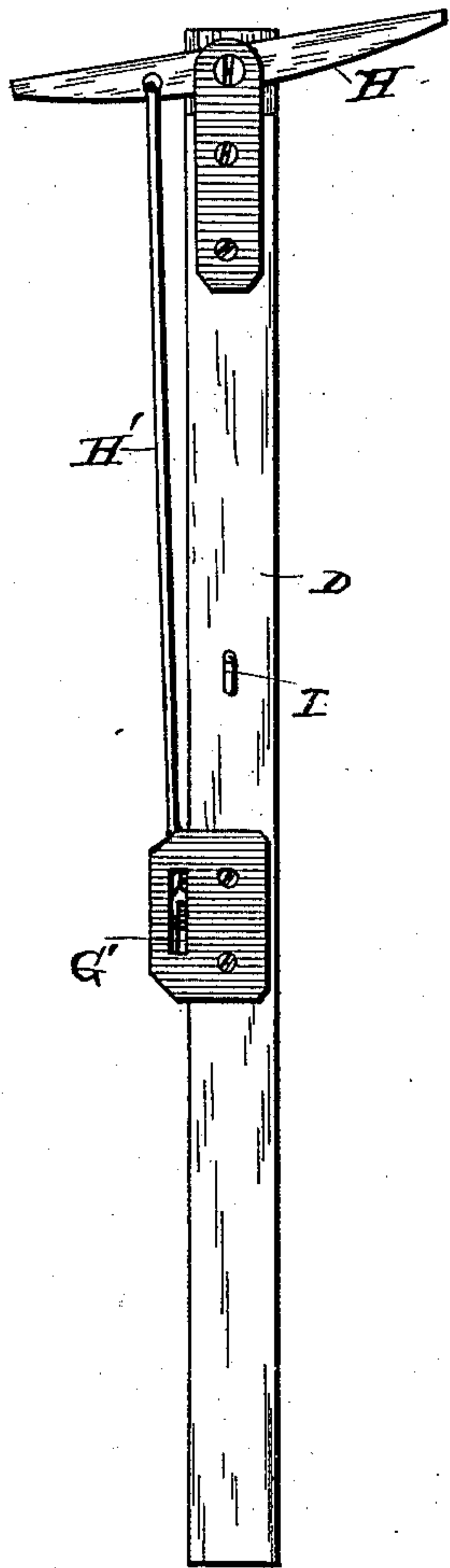
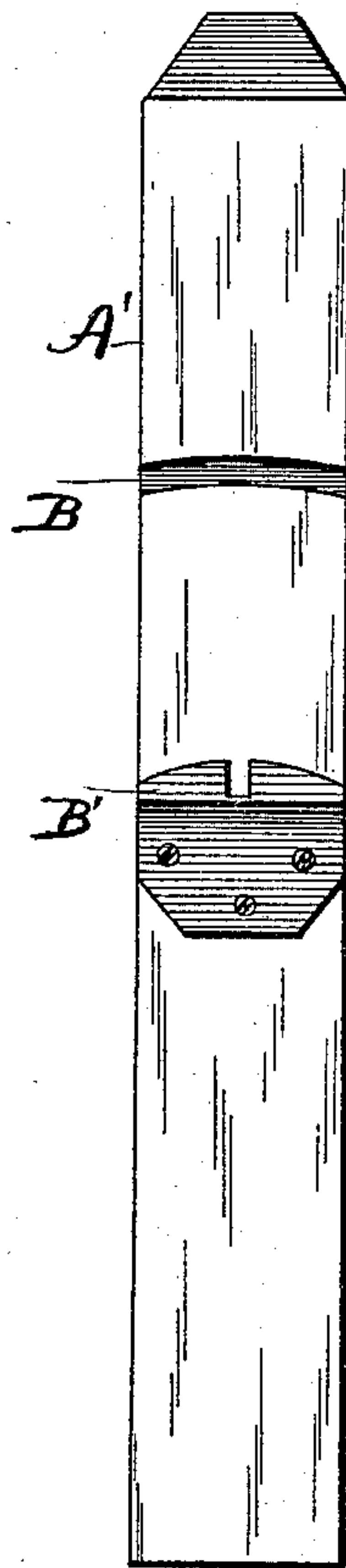


Fig. 3



WITNESSES

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UNITED STATES PATENT OFFICE.

DENNIS COLLINS, OF NEW HAMPTON, IOWA.

GATE.

SPECIFICATION forming part of Letters Patent No. 294,853, dated March 11, 1884.

Application filed September 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, DENNIS COLLINS, a citizen of the United States, residing at New Hampton, in the county of Chickasaw and State of Iowa, have invented certain new and useful Improvements in Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in swinging gates; and it has for its objects, first, to provide a gate which shall be so constructed as to admit of the parts being drawn tightly together when they become loose; second, to provide means for vertically adjusting the free end of the gate so as to compensate for sagging.

With these ends in view my invention consists, essentially, of a longitudinal central beam having rounded ends flexibly connected to two upright posts, the one constituting the hinge-batten and the other the latch-batten, in combination with horizontal rods capable of being tightened, and an oblique adjusting-rod adapted to elevate the free end of the gate from the ground, the peculiarities of which will hereinafter more fully appear.

In the accompanying drawings, forming a part of this specification, and on which like letters of reference indicate corresponding features, Figure 1 represents a side elevation of my improved gate, showing the same hung in a closed position; Fig. 2, an end view of the latch batten or upright, and Fig. 3 a detached view of the inner side of the latch-post.

The letter A indicates the hinged post, and the letter A' the latch-post, both of which are of the usual construction, save that the latter is provided with a transverse curved kerf, B, and a curved notched latch-plate, B'.

The letter C indicates the horizontal central beam of the gate, and the letters C' and D, respectively, the hinge batten or upright and the latch-batten, these several beams being constructed of wood and connected together by means of the metallic plates D' and bolts or rivets E. The ends of the horizontal beam are slightly rounding or curved, so as to permit of its assuming an oblique or angular position relatively to the uprights.

The letter F' refers to a series of horizontal rods or wires, which constitute the upper and

lower rails of the gate, the same being firmly held at one end to the upright D, and at the other to the eyebolts F. These bolts F pass through apertures formed in the hinge-batten, and are provided with washers and nuts, by means of which the tension of the rods may be increased and the parts of the gate made firm. By this means the renewal of a rod is made easy should it become broken.

The letter F' refers to two braces, the same being bolted, respectively, to the uprights C' and D on opposite sides, and their upper ends slotted and connected to the horizontal beams by means of bolts.

The letter G refers to an adjusting-brace, bolted securely to the horizontal beam, preferably near its center, and bent into a horizontal position at its opposite end, where it passes through a slot in the batten C'. This brace is provided with a washer and an adjusting-nut, and its function is to elevate the free end of the gate, so as to compensate for sagging; or to make it clear the snow (or other obstruction) during the winter season, this being accomplished by simply screwing the nut to the right. The rounded ends of the horizontal beam, the flexible character of the rods E', and the slotted ends of the braces F' admit of this adjustment of the gate.

The letter G' refers to a pivoted latch, which is preferably hung on one of the bolts which serve to secure the plates D' to the free end of the horizontal beam.

Near the upper end of the batten D is pivoted a lever, H, the same being connected to the latch by a rod or rope, H', whereby the latch is operated from either side, and also from the saddle. A stud or projection, I, extends outwardly from this batten, and when the gate is closed it enters the curved kerf B as the latch rides over the curved upper end of the latch-plate B', the gate being slightly raised by this operation; and when the latch has reached the notch in the plate it drops into it, thus stopping the further swinging of the gate and bringing the weight of the same upon the projection I.

I desire to observe that to my knowledge it is not broadly new to provide a gate-post with a transverse kerf and stops, the latter being designed to stop the gate-latch.

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

1. In a swinging gate, the combination,
5 with the horizontal beam having rounded ends, and the hinge and latch uprights or battens flexibly secured thereto by means of plates and bolts, of the oblique adjusting-brace secured to the horizontal beam, passing
10 through the hinge-batten, and provided with a tightening-nut, substantially as described.

2. In a swinging gate, the combination, with the horizontal beam having rounded ends, and the hinge and latch battens flexibly
15 secured thereto by plates and bolts, of the rods secured to the latch-batten and to the eyebolts, the latter passing through the hinge-

batten and the oblique brace secured to the horizontal beam and passing through the hinge-batten, substantially as described. 20

3. A gate consisting of a horizontal beam, the hinge and latch battens flexibly secured thereto by plates and bolts, the rods and eyebolts connecting the battens together, the oblique slotted braces, and the oblique adjust- 25 ing-brace secured to the horizontal beam and passing through a slot in the hinge-batten, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DENNIS COLLINS.

Witnesses:

J. A. GREEN,

E. P. SHEFFIELD.