

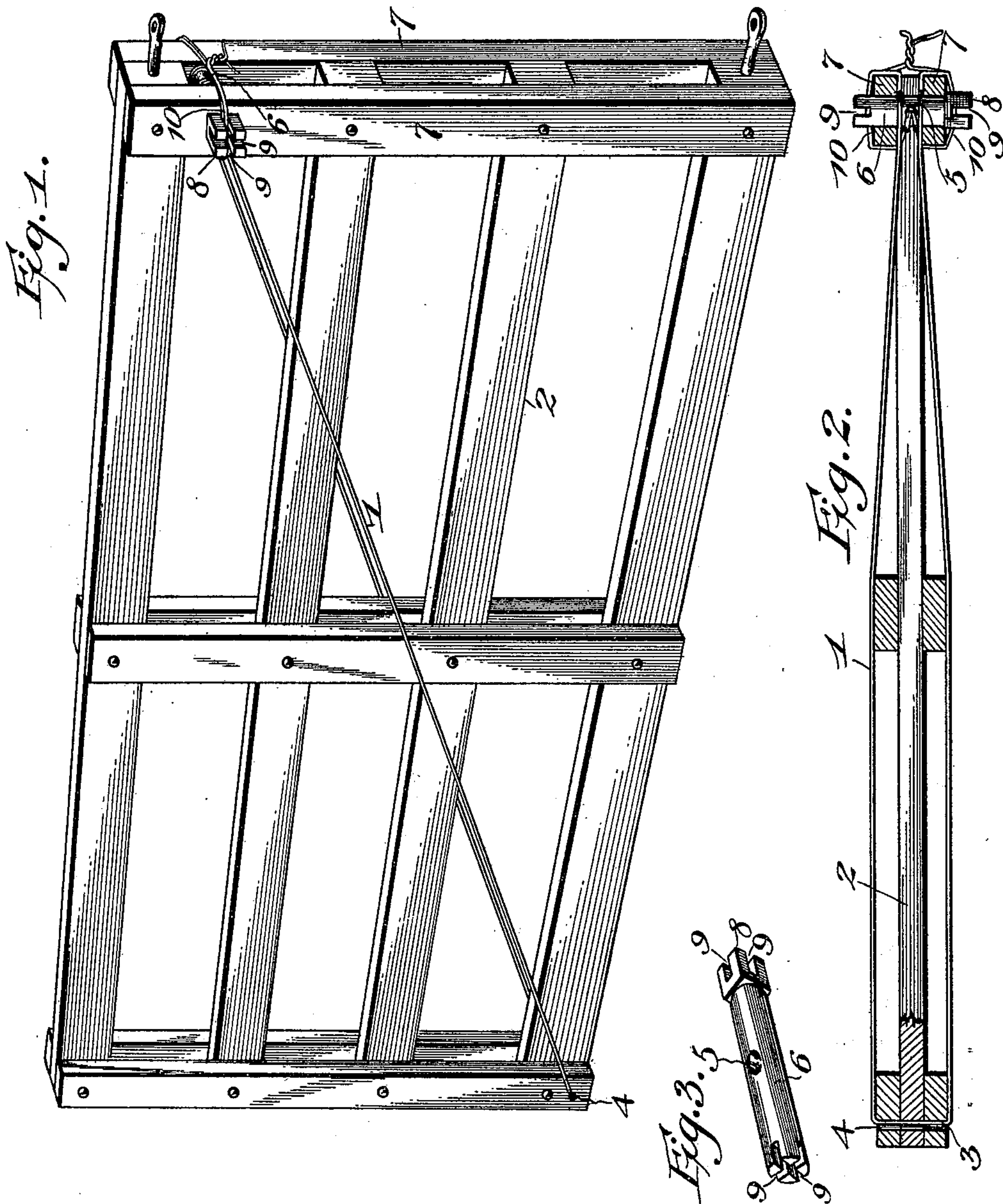
No. 631,311.

Patented Aug. 22, 1899.

H. LORTON.
GATE.

(Application filed Mar. 4, 1899.)

(No Model.)



Witnesses

A. Roy Appleman
J. H. P. Day

By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

HENRY LORTON, OF COWDEN, ILLINOIS.

GATE.

SPECIFICATION forming part of Letters Patent No. 631,311, dated August 22, 1899.

Application filed March 4, 1899. Serial No. 707,782. (No model.)

To all whom it may concern:

Be it known that I, HENRY LORTON, a citizen of the United States, residing at Cowden, in the county of Shelby and State of Illinois, have invented a new and useful Gate, of which the following is a specification.

The invention relates to improvements in gates.

The object of the present invention is to improve the construction of gates, more especially the means for supporting the same, and to provide a simple, inexpensive, and efficient device adapted to be readily applied to an ordinary gate, door, or similar closure and capable of ready adjustment and of preventing such gate or door from sagging or warping.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with this invention. Fig. 2 is a horizontal sectional view. Fig. 3 is a detail perspective view of the shaft or spool.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a brace extending diagonally across the gate 2, at opposite sides thereof, and consisting of a single piece of wire doubled between its ends and having its bend 3 arranged in a perforation or notch 4 at the lower front corner of the gate and its ends passed through a perforation 5 of a spool or shaft 6 and wound thereon to stretch the brace to the desired tension. The shaft or spool 6, which extends transversely of the gate, is journaled in registering openings of the adjacent end bars 7, and it is located near the upper rear corner of the gate; but it will be apparent that the position of the brace may be reversed, if desired. One end of the shaft or spool is provided with a head 8, adapted to be engaged by a wrench or other suitable tool for tightening the brace, and each end of the spool or shaft is provided with oppositely-disposed grooves or notches 9, adapted to receive the terminals 10 of the wire, whereby it is locked at any desired adjustment. After the brace is stretched to the desired tension the terminals of the wires are wrapped around the end bars of the gate and engage the said

notches or grooves, whereby the spool or shaft is firmly held against accidental retrograde rotation.

Although the brace is shown applied to a gate, yet it will be readily apparent that it is applicable to doors and the like, and it is adapted to prevent the same from sagging.

The brace which extends diagonally across the gate is adapted to support the front end of the same to prevent sagging, and the notched or grooved ends of the spool or shaft project beyond the opposite faces of the gate, and the wire after being stretched to the desired tension is adapted to be readily wound around the adjacent end bars of the gate and engaged with the notches or grooves to lock the shaft or spool against backward movement and retain the brace at the desired adjustment.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What is claimed is—

1. The combination with a gate, of a wire brace extending diagonally of the same and adapted to support the front thereof and composed of two sides located at opposite sides of the gate, and a transverse spool or shaft journaled on the gate and having the brace wound around it, and provided at its ends with a notch or groove adapted to receive the wire brace, the latter being extended around the end of the gate and connected thereat, whereby it is retained in the groove or notch, substantially as described.

2. The combination with a gate, of a wire brace extending diagonally of the same and composed of two sides, and a transverse spool or shaft journaled on the gate at one end of the brace and having its ends extended beyond the gate and provided with grooves or notches, said brace being wound around the intermediate portion of the spool and having its terminals extended around the adjacent end of the gate and engaged with the said grooves or notches, substantially as described.

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

HENRY LORTON.

Witnesses:

J. W. FRITTS,
RUFUS ELBEN.