

No. 701,676.

Patented June 3, 1902.

E. H. CARPENTER.
SELF CLOSING GATE.

(Application filed Jan. 18, 1902.)

(No Model.)

Fig. 1.

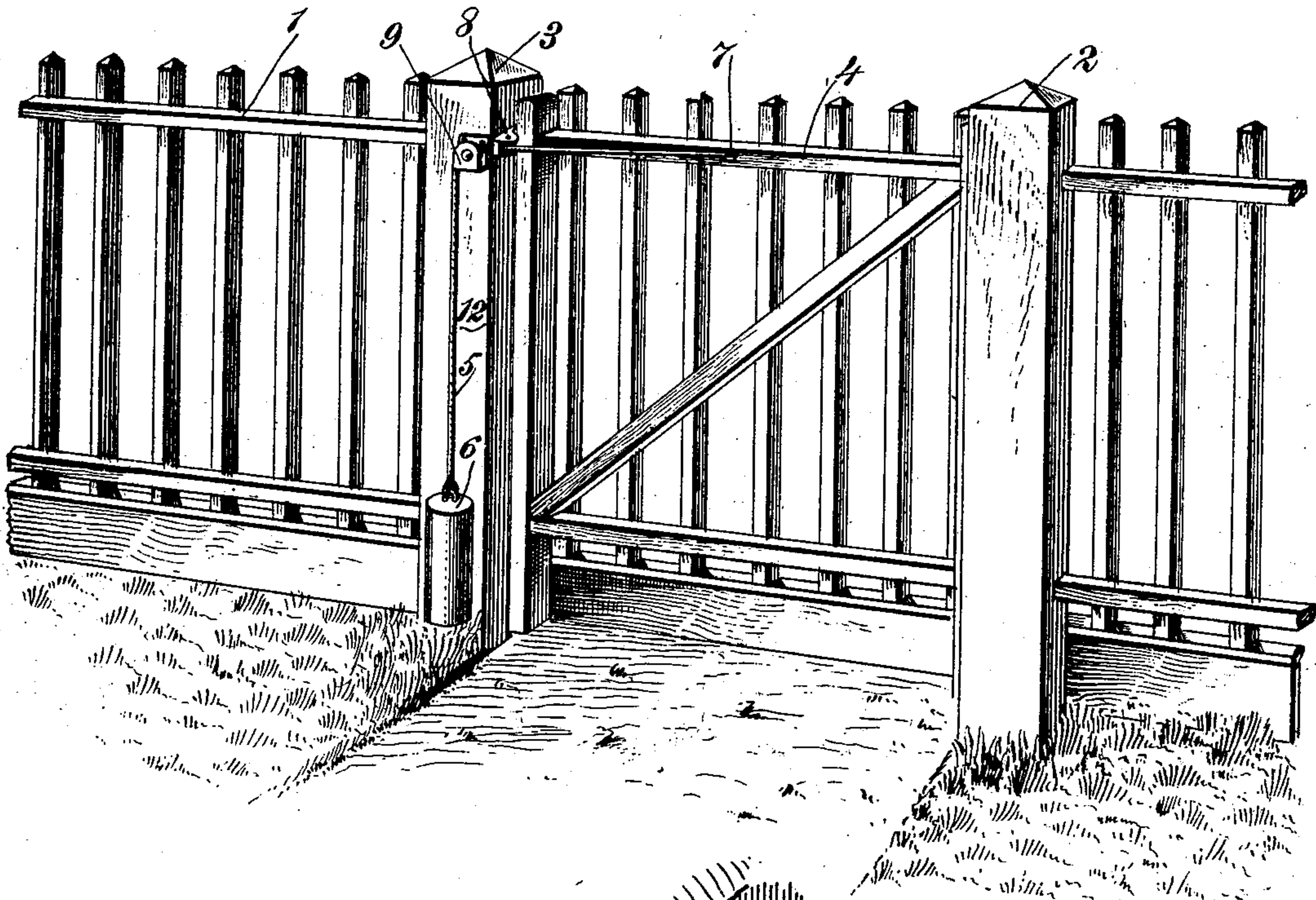
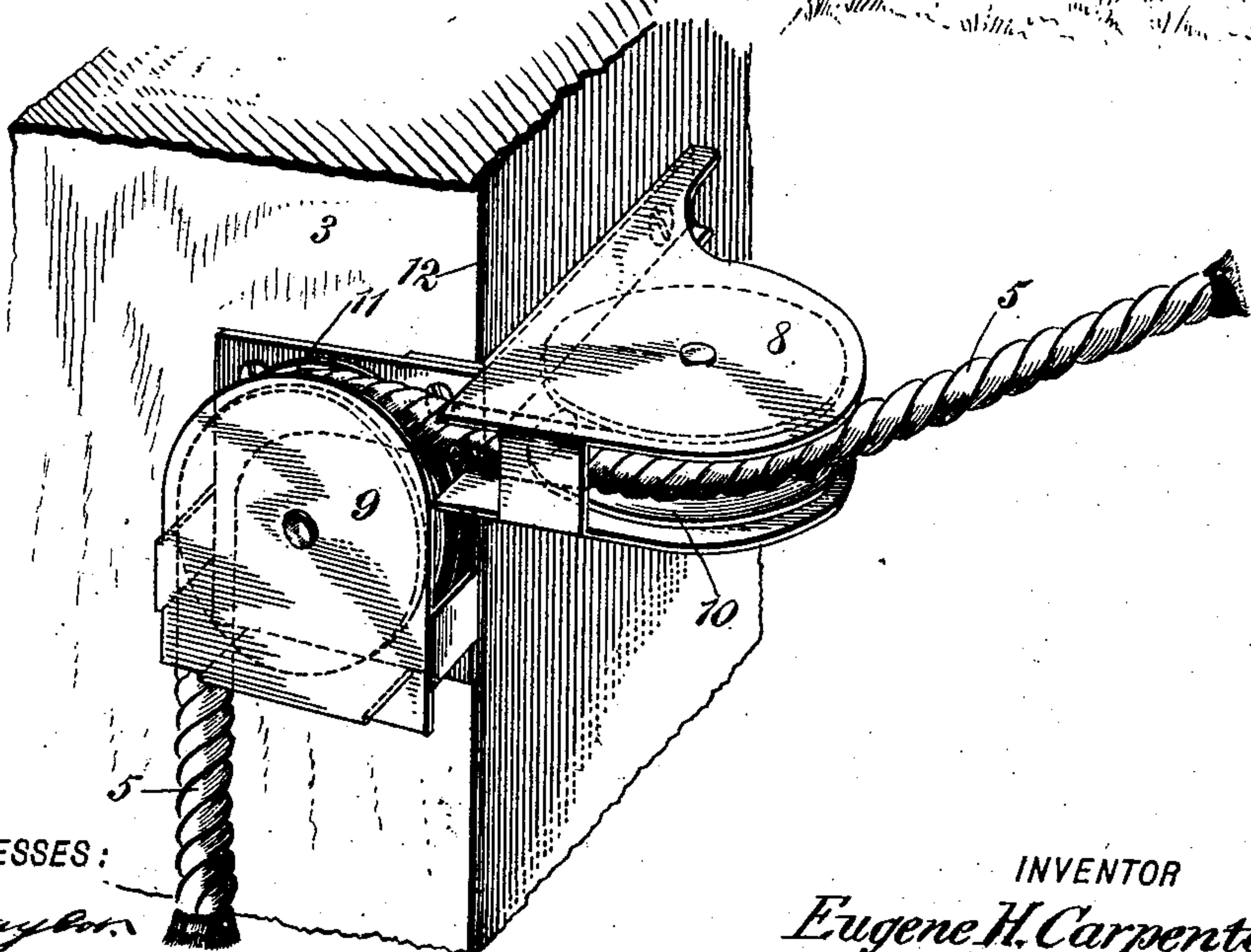


Fig. 2.



WITNESSES:

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EUGENE H. CARPENTER, OF FLORENCE, COLORADO.

SELF-CLOSING GATE.

SPECIFICATION forming part of Letters Patent No. 701,676, dated June 3, 1902.

Application filed January 18, 1902. Serial No. 90,333. (No model.)

To all whom it may concern:

Be it known that I, EUGENE H. CARPENTER, a citizen of the United States, and a resident of Florence, in the county of Fremont and State of Colorado, have invented a new and Improved Self-Closing Gate, of which the following is a full, clear, and exact description.

My invention relates to self-closing gates, and more particularly to gates of the kind closed by a weighted cord.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures—
Figure 1 is a perspective view of my invention in operation, and Fig. 2 is a fragmentary perspective view of certain portions of the same somewhat enlarged.

The fence 1 is provided with posts 2 3 and with a gate 4 in the usual manner. A cord 5, provided with a weight 6, is secured to the gate by a staple 7 and passes through the pulley-blocks 8 9, said blocks containing pulleys 10 11 and being arranged upon adjacent faces of the post divided by the angle 12. The frame 8, containing the pulley 10, is not in alinement with the angular edge 12, but is set in such a position that one edge of the pulley 10 projects slightly beyond said edge 12, as indicated more particularly in Fig. 2. The frame 9, containing the pulley 11, is merely secured rigidly to the post, its edge being flush with the edge 12. The object of this arrangement is to avoid the unnecessary bends in the cord, and thereby to prevent undue friction. The principle is that if the

frame 8 be secured in the position shown the cord 5 can more readily pass around the pulley 10 and over the pulley 11, the cord making only two bends no matter what may be the position of the several parts. It will be observed, therefore, that I have constructed a cheap, simple, and efficient device which will not cause undue wear upon the cord and which will not be liable to cause distortion of the gate.

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

A self-closing gate, comprising an angular post, a member loosely mounted thereon and free to swing, a pulley mounted upon said post in a plane parallel with the general axial direction of said post and having one of its edges flush with the angular corner thereof, another pulley mounted upon said post at right angles with the general direction of said first-mentioned pulley and in immediate proximity thereto, one of said pulleys being so disposed upon said post as to overreach said angular corner thereof by a distance commensurate with the thickness of said other pulley, and a flexible member partially engaging said pulleys and also engaging said gate, the arrangement being such that said flexible member is guided around a single angular corner of said post, the two pulleys being mounted in casings and provided with guards to prevent the displacement of said flexible member.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EUGENE H. CARPENTER.

Witnesses:

ELBERT E. WATTS,
LYNN E. SMITH.