

R. P. BELLICAN.
GATE CLOSER AND SUPPORTER.
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Fig. 1.

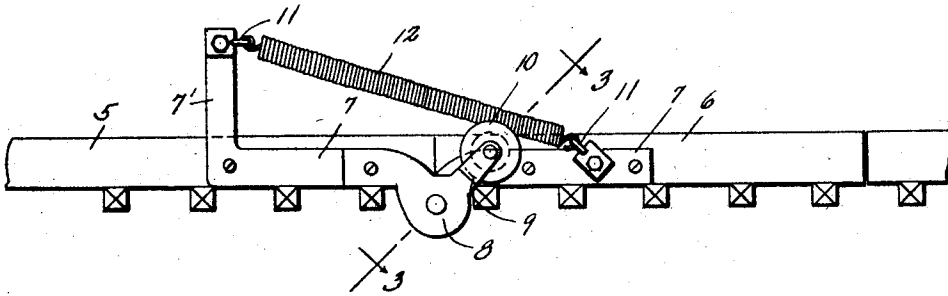


Fig. 2.

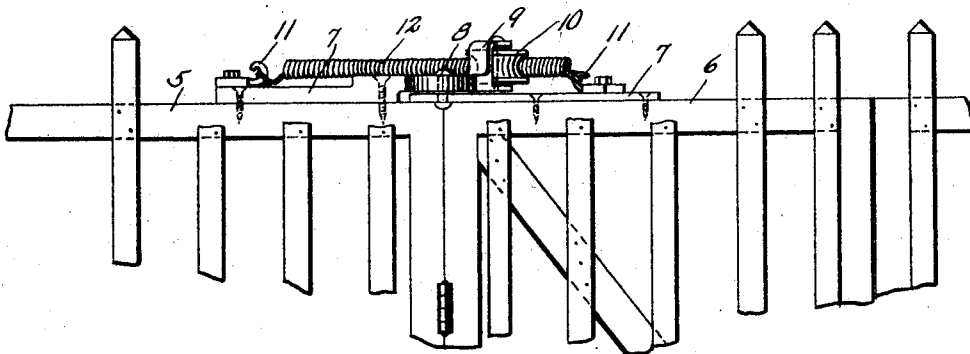
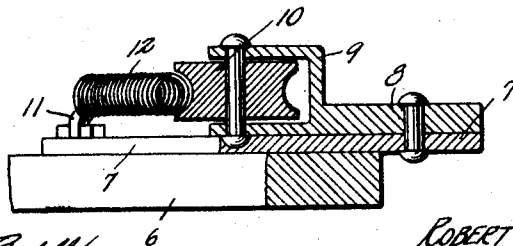


Fig. 3.



WITNESSES

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GATE CLOSER AND SUPPORTER.

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To all whom it may concern:

Be it known that I, ROBERT PEARCE BELLICAN, a citizen of the United States, and resident of Natchez, in the county of Adams and State of Mississippi, have invented a new and Improved Gate Closer and Supporter, of which the following is a full, clear, and exact description.

In connection with doors and gates, a flat twisted construction has often been utilized to insure a closing of the gate. This has proven unsatisfactory for the reason that the additional strain exerted upon the hinges by the action of this construction has caused a sagging of the gate or door.

With this in view, I have constructed a supporter and closer for closures, and more particularly gates, by means of which the gate will always be properly closed, the closer also acting as a supporter for the gate, as well as a hinge, thus tending to control the life of the closure and to eliminate adjustments and repairs to a minimum.

A further object of my invention is to construct a device of this nature which will be extremely economical to manufacture and efficient in operation.

Further objects of my invention will appear in the annexed specification and drawings, which latter represent one practical embodiment of my invention, and in which drawings,

Figure 1 is a plan view of a gate having applied thereto my improved type of supporter and closer.

Fig. 2 is a front view of the device as illustrated in Fig. 1, and

Fig. 3 is an enlarged sectional view taken along the lines 3—3 of Fig. 1.

In these views the reference numeral 5 indicates a fence or other suitable inclosure provided with an opening, in which a closure such as a gate 6 is mounted in the usual manner.

Contrary to the usual construction however, a hinge, conveniently including a pair of plates 7 pivotally connected together as at 8 are mounted flush upon the upper face of the fence and gate 6 serving as an additional supporting hinge for the closure.

One of the plates has its inner end conveniently extended, and terminates in a bracket such as 9 between the arms of which a pulley 10 is rotatably mounted; the opposite end of this plate extends at right angles to the body thereof so as to form an ex-

tension 7' for a purpose hereinafter more fully described.

Adjacent the outer ends of the plate 7, hooks or other suitable securing means 11 are provided, which serve to engage and retain in applied position, a contraction spring 12 extending between these hooks and bearing against the pulley 10.

It will be appreciated that by virtue of the construction employed, that any sagging on the part of the gate will be prevented, in view of the fact that the spring 12 will at all times exert an upward pull upon the gate or other closure 6.

Furthermore, the spring, by virtue of its mounting will exert upon the gate 6, a strong pull tending to close the gate, but this pull will diminish upon the gate or other closure assuming its closed position so that slamming will be reduced to a minimum. This action is to be attributed to the fact that the plate 7 mounted upon the upper rail of the fence 5 is extended as at 7' so that the spring 12 lies in a straight line upon the gate assuming its closed position.

Obviously numerous modifications of structure might be resorted to without in the least departing from the scope of my claims, which read:

I claim;

1. In combination with a fence and gate therefor, of a closure including a pair of pivotally connected plates rigidly secured to said gate and fence respectively, and means extending between said plates for closing the gate.

2. In combination with a fence and gate therefor, of a closure including a pair of pivotally connected plates rigidly secured to said gate and fence respectively, a spring extending between and having its ends secured one to each of said plates, said spring presenting, when the gate is in closed position, a substantially straight body.

3. A closer, including a pair of plates having their inner ends pivotally secured together, said plates being adapted to be rigidly attached respectively to a gate and support therefor, one of said plates being formed with a right angle extension, and means extending between the outer end of said extension and opposite plate for closing said gate.

4. A closer, including a pair of plates having their inner ends pivotally secured together, said plates being adapted to be rig-

idly attached respectively to a gate and support therefor, one of said plates being formed with a right angle extension, and a contractible spring extending between the
5 outer end of said extension and opposite plate for closing said gate.

5. A closer, including a pair of plates adapted to have their inner ends secured together, one of said plates being formed with
10 a right angle extension adjacent its outer end, a bracket formed adjacent its inner end, a spring extending between and secured to the outer end of said extended portion and opposite plate, and means carried by

said bracket for providing a bearing for said
15 spring.

6. A closer, including a pair of plates adapted to have their inner ends secured together, one of said plates being formed with
a right angle extension adjacent its outer
20 end, a bracket formed adjacent its inner end, a spring extending between and secured to the outer end of said extended portion and opposite plate, and a pulley carried by
said bracket for providing a bearing for
25 said spring.

ROBERT PEARCE BELLICAN.