

P. J. KAMUF.
DOOR CLOSING SPRING.
APPLICATION FILED JULY 16, 1909.

947,077.

Patented Jan. 18, 1910.

Fig. 1.

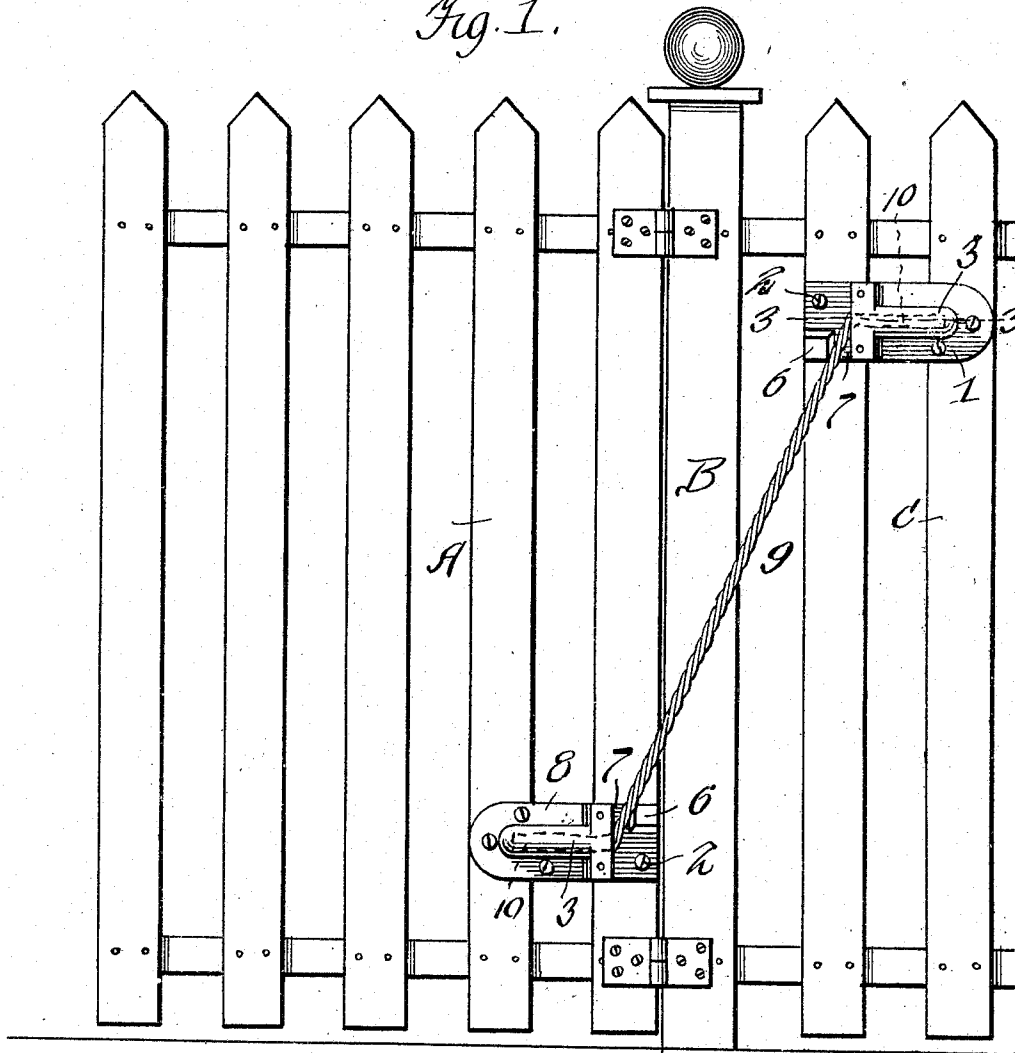


Fig. 2.

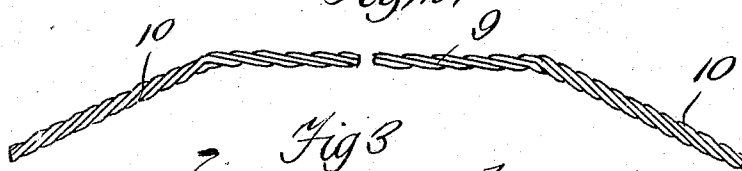
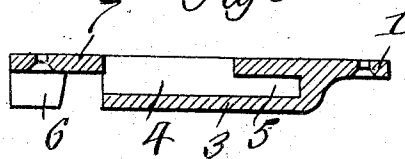


Fig. 3.



Witnesses

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PETER J. KAMUF, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO WILLIAM H. DAVIS, OF WELLSTON STATION, ST. LOUIS, MISSOURI.

DOOR-CLOSING SPRING.

947,077.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PETER J. KAMUF, a citizen of the United States, residing at Wellston Station, in the city of St. Louis and State of Missouri, have invented new and useful Improvements in Door-Closing Springs, of which the following is a specification.

This invention relates to gate or closure springs, and has for an object to provide a device of this character wherein will be employed novel and effective means adapted for engagement at one end with the gate or closure and at the other end with a portion of a fence or the like, and which when operatively applied will effectively hold the gate normally in its closed position.

A still further object of my invention is to provide a spring of the above stated character that will be extremely simple in construction and which may be manufactured at a relatively low cost.

The above mentioned and other objects are attained by the construction, combinations and arrangements of parts, as disclosed on the drawing, set forth in this specification, and particularly pointed out in the appended claim.

In the drawing, forming a portion of this specification and in which like characters of reference indicate similar parts in the several views: Figure 1 is a front view of a gate and a portion of a fence showing my improved gate spring in its applied position. Fig. 2 is a detail elevation of the spring. Fig. 3 is a detail horizontal section taken on the line 3—3 of Fig. 1.

Upon reference to the drawing, there is shown a gate A which is hinged to the post B of a fence structure C. A bracket or retaining member 1 is secured by means of fastening devices 2 to the panels or to any other part of the fence structure at a point adjacent to the post B. This bracket or retaining member preferably comprises a plate which is formed with a longitudinally extending boss 3 in which is formed a groove 4. The groove communicates at one end with a recess 5 formed in the boss and at the other end the groove opens directly onto the

body portion of the plate forming the said bracket or retaining member.

Adjacent to one end of the boss 3, the plate forming the bracket is provided with an outwardly extending lug or stop shoulder 6 which is adapted to form with the boss 3 a guide channel 7. A bracket or retaining member 8 is secured to the panels of the gate A, and as shown, the said bracket or retaining member is identical in construction with the bracket or retaining member 1 and it is thought that the description of the former will suffice for the latter.

A spring 9 is provided and is preferably formed from a plurality of twisted steel wires whose ends are bent to form fingers 10 which are engaged at their extremities in the recesses 5 formed in the bracket plates or retaining members. The upper and lower portions of the springs adjacent to the inner ends of the fingers are disposed in the guide channels 7 upon the brackets or retaining members. In practice, the spring forming wire is first bent into the form shown in Fig. 2 and one extremity or finger of the wire is operatively positioned in the lowermost bracket or retaining member. After this operation the wire is extended diagonally and its upper extremity or finger is operatively connected with the uppermost bracket or retaining member and is given a half turn in the recess 5. In this manner more resiliency is offered the spring as will be appreciated. The spring as herein shown and described will be found extremely simple in construction, it may be placed upon the market at a relatively low cost and its use provides means whereby the gate or closure will be automatically returned to its closed position after the gate or closure has been released by the operator during the opening operation.

I claim:

A swinging closure having a bracket secured thereto, a fixed bracket located adjacent to the said closure, each bracket having a longitudinally extending recess formed therein and provided outwardly of the said passage with an outwardly extending lug,

and a spring connecting the said brackets
and provided at its ends with oppositely
extending fingers, said fingers being ar-
ranged in the recesses formed in the said
5 brackets and engaged with the lugs whereby
the fingers are held from longitudinal move-
ment.

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

PETER J. KAMUF.

Witnesses:

MARY M. MURPHY,
CHARLES J. KNOLL.