

M. ANDERSON.  
 GATE CLOSING DEVICE.  
 APPLICATION FILED SEPT. 8, 1916.

1,319,554.

Patented Oct. 21, 1919.

Fig. 1.

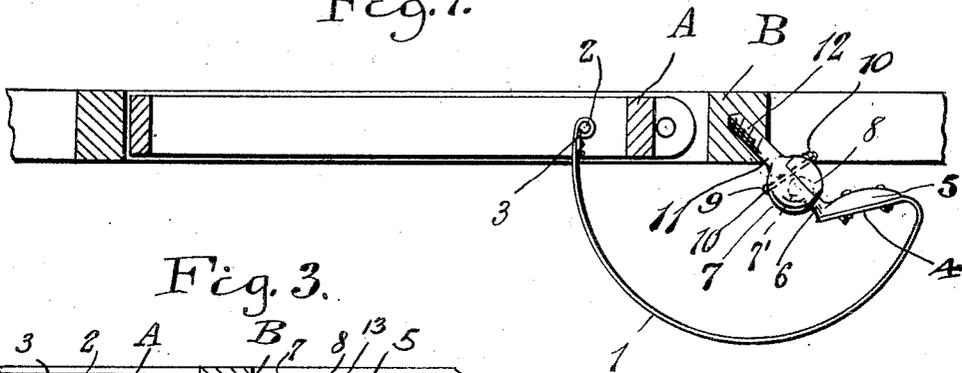


Fig. 3.

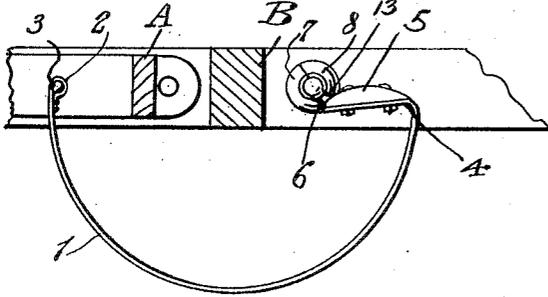


Fig. 2.

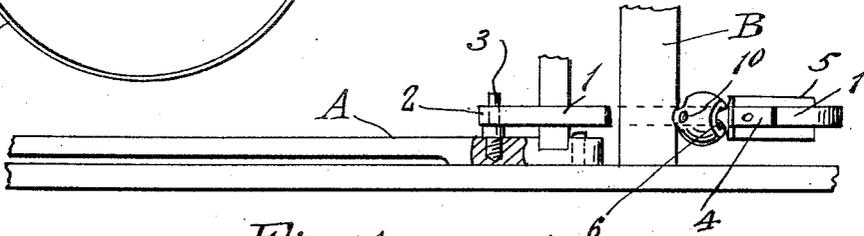


Fig. 4.

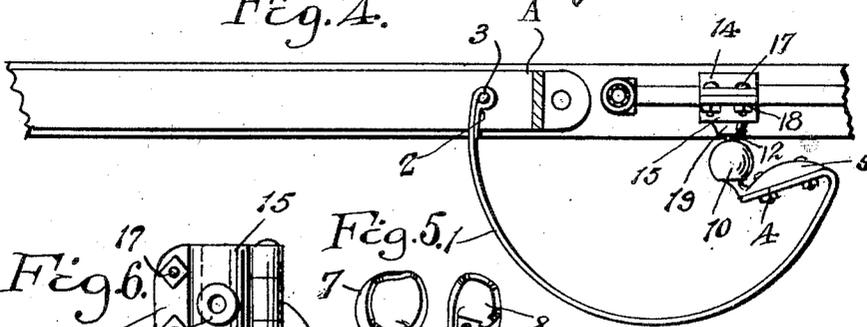


Fig. 6.

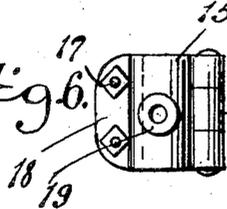
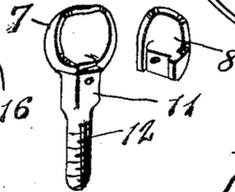


Fig. 5.



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# UNITED STATES PATENT OFFICE.

MARTIN ANDERSON, OF SANDY, UTAH.

## GATE-CLOSING DEVICE.

1,319,554.

Specification of Letters Patent.

Patented Oct. 21, 1919.

Application filed September 8, 1916. Serial No. 119,042.

To all whom it may concern:

Be it known that I, MARTIN ANDERSON, a subject of the King of Great Britain, residing at Sandy, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Gate-Closing Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is the provision of a closing device, for a swinging gate or other closure, that can be conveniently associated with any type of gate for effecting closing of the gate when the latter is released from open position, the said closing device being of a simple and durable construction, cheap to manufacture and efficient in operation.

Other objects will appear and be better understood from that embodiment of my invention of which the following is a specification, reference being had to the accompanying drawings forming a part thereof, in which:

Figure 1 is a top plan view of a fence and a gate, and showing the closing device associated therewith,

Fig. 2 is a detail sectional view of the upper end of the gate, and showing the closing device in side elevation,

Fig. 3 is a top plan view of a gate and fence, showing the gate closing device connected to the fence in a manner different from the showing in Figs. 1 and 2,

Fig. 4 is a sectional plan view taken through an iron fence, and showing a modified form of connection for connecting the gate closing device to an iron rail of the fence,

Fig. 5 is a vertical elevation of the socketed member with one of the plates removed,

Fig. 6 is a vertical elevation of the connection shown in Fig. 4, for connecting the gate closing device, removed from the fence.

Referring to the drawings in detail, and particularly to Figs. 1 and 2, the letter A designates a horizontally swinging gate and B a gate post to which the gate A is to be hinged.

The closing device is shown as consisting of a semicircular strip 1, formed of resilient metal and having one end rolled to provide an eye 2, which receives the shank of a stud 3 which is secured to the gate 1, as shown in

Fig. 1 of the drawings. The opposite end of the semicircular resilient strip 1 is bent and extended radially, as at 4, and secured to a plate 5. The plate 5 has one end provided with a lateral extension 6, which carries a spherical head 7'. The spherical head 7' is received by a socket formed by a companion pair of clamping plates 7 and 8, which are detachably secured to each other by means of a transversely extending bolt 9, which is held in place by means of a nut 10 adjustable against the clamping plate 8. The plates 7 and 8 are of such configuration that when assembled they provide a substantially spherical shaped socket for receiving the spherical head 7' and admit of the same having universal movement therewithin. A threaded shank 11 is carried by the plate 7 and in Figs. 1 and 2 of the drawings is shown received by a threaded opening 12 formed in the gate post B. When the gate A is swung to open position, the resilient strip 1 will be tensioned, so that when the gate is released the resilient strip 1 will effect closing of the gate. It is to be understood that the resilient strip 1, which serves as a spring, will effect closing of a gate which is mounted to be swung in either direction.

In Fig. 3 of the drawings the shank 11 of the socket is extended vertically and received by an opening in the lower fence rail at a point in rear of the gate post B, and the meeting edges of the plates 7 and 8, at one side of the socket, are cut-away to provide a slot 13 to admit of the lateral extension 6 extending through the same.

In Fig. 4 of the drawings, the closing device is shown associated with an iron fence, and in this figure is shown a novel type of fastening means for securing the closing device to an iron cylindrical rail of a metallic fence. The closing device is shown as consisting of a pair of clamping plates 14 and 15 that are provided with aligned recesses adapted to receive the fence rail, the said clamping face having the opposed edges at the side thereof, hinged, as shown at 16, and the meeting ends at the opposite side connected by means of bolts 17 and nuts 18. The plate 15 is provided with a lateral extension 19, which has a threaded opening therein for receiving the shank 12 of the socket.

The closing device described above, it will be seen, can be conveniently associated with

any type of closure and will effectively close the same when released from open position.

It is evident that various changes might be resorted to in the construction, form and arrangement of the several parts, without departing from the spirit and scope of my invention; hence I do not wish to limit myself strictly to the structure hereindescribed and claimed.

10 Having thus described my invention what I claim as new, is:

1. A gate closing device comprising an arcuate shaped spring having one end pivoted to a gate and having its other end radi-  
15 ally extended, a plate secured to the last named end of the spring and extending parallel therewith, a spherical head connected to one end of the plate and disposed angularly thereto, a pair of semi-spherical clamp-  
20 ing plates secured about said head and having opposing slots therein to permit the plates and spring to have movement in rela-

tion thereto, a shank formed on one of said plates, and means securing said shank to a support.

25 2. A gate closing device comprising an arcuate shaped spring having one end pivoted to a gate and having its other end radi- ally extended, a plate secured to the last  
30 named end of the spring and extending parallel therewith, a spherical head connected to one end of the plate and disposed angularly thereto, a pair of semi-spherical clamp- ing plates secured about said head, a shank  
35 formed on one of said plates, and a pair of hinge plates secured about a support and having the shank secured thereto.

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

MARTIN ANDERSON.

Witnesses:

NIELS THOMPSON,  
ORSON RYAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."