

No. 838,799.

PATENTED DEC. 18, 1906.

H. J. NAGLE.

HINGE.

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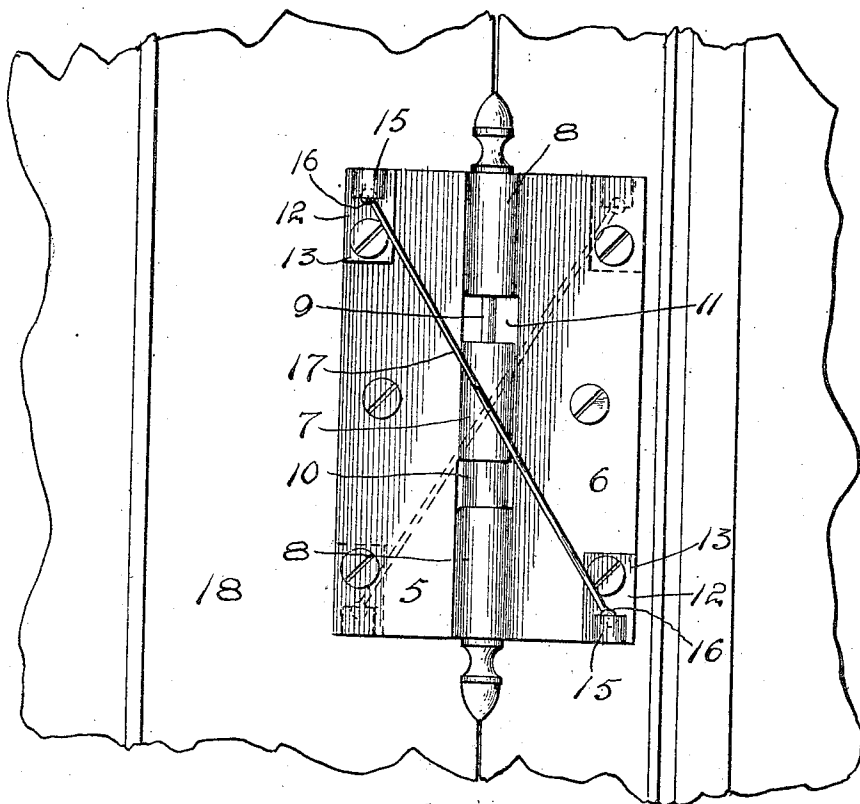


Fig. I.

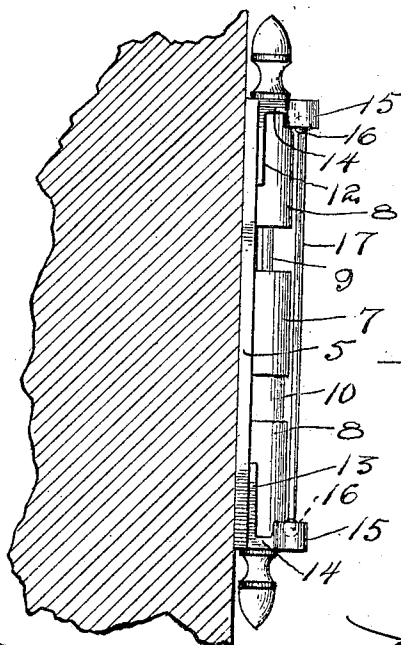


Fig. 2.

Witnesses

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HINGE.

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To all whom it may concern:

Be it known that I, HENRY J. NAGLE, a citizen of the United States, residing at Abbottstown, in the county of Adams, State of Pennsylvania, have invented certain new and useful Improvements in Hinges; 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.

This invention relates to improvements in hinges, and more particularly to that class of hinges which are adapted to automatically close the door or gate to which they are attached.

Another object of the invention is to provide a hinge of this character which shall be simple and durable in construction and cheap to manufacture.

A further object is to provide a hinge which may be readily changed to adapt it for use on a door or gate opening either from the right or left.

The objects will be apparent from the following description taken in connection with the accompanying drawings.

In the accompanying drawings, Figure 1 is a front elevation of a hinge constructed in accordance with my invention, showing the same applied to a door, the door being in closed position, and showing in dotted lines the position of the rod and socket-plates when the hinge is reversed. Fig. 2 is a side elevation of the hinge in place.

Referring to the accompanying drawings, 5 and 6 denote the two leaf members of my hinge, having formed thereon pintle-lugs 7 and 8, respectively, through which passes the pintle-pin 9. A washer 10, carried by said pintle-pin, rests on one of the pintle-lugs 8 and acts as a bearing for the pintle-lug 7. A space 11 is left between the other of the pintle-lugs 8 and lug 7 to allow for the upward

movement of one of the members with relation to the other of said members.

Socket-plates 12 are secured at obliquely opposite points on the leaf members 5 and 6 by means of screws, which also serve to secure the hinge proper in position on the door and its frame. Each of the socket-plates 12 comprises a rectangular base-plate 13, preferably formed of sheet metal and having a right-angulantly-extending arm 14 projecting outwardly from its lower edge. On the outer ends of the arms 14 are formed sockets 15, which are adapted to receive balls or knobs 16 formed on the ends of a rod 17.

It will be readily seen that when the door 18 is swung to open position the rod 17 will tend to assume a vertical position, causing the leaf member 5 to rise on the pintle-pin 9, and when the door is released its weight will automatically close the same. To adapt the hinge for use on a door opening in a reverse direction to that shown in Fig. 1, it is only necessary to detach the socket-plates 12 and arrange them as shown in dotted lines in Fig. 1 and to change the position of the rod 17, as also shown.

What I claim as new is—

A hinge comprising a pair of hinged leaf members, said leaf members being each provided with a plurality of openings for the passage of attaching elements, plates provided each with an opening designed for registration with one of the openings in each of said leaf members and designed to be secured thereto by the attaching elements for the hinged leaf members, sockets carried by said plates, and a rod seated at its ends in said sockets.

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

HENRY J. NAGLE

Witnesses:

CHAS. HAFFER,
J. J. WOLF.