R. L. HALL.

HINGE.

APPLICATION FILED JAN. 20, 1922.

1,418,919. Patented June 6, 1922.

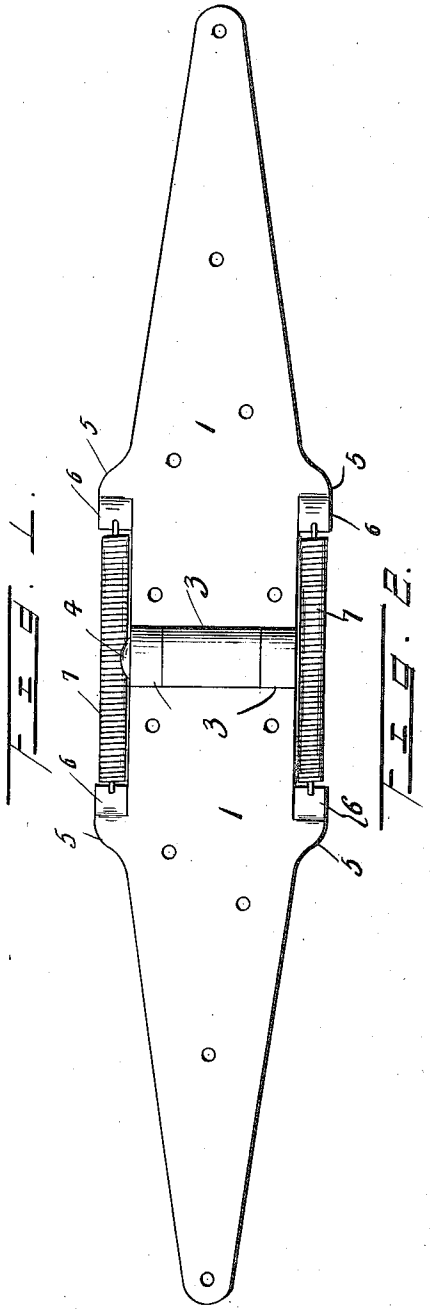


FIG. 1.

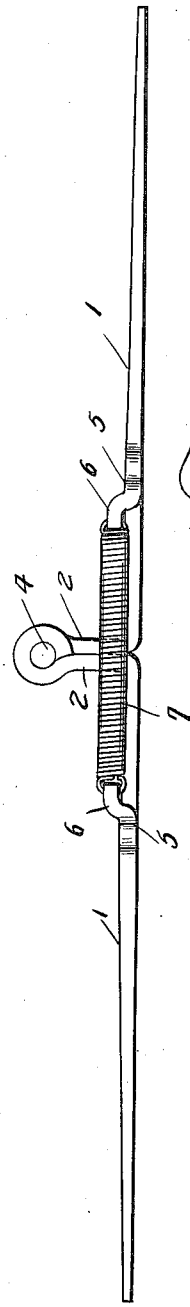


FIG. 2.

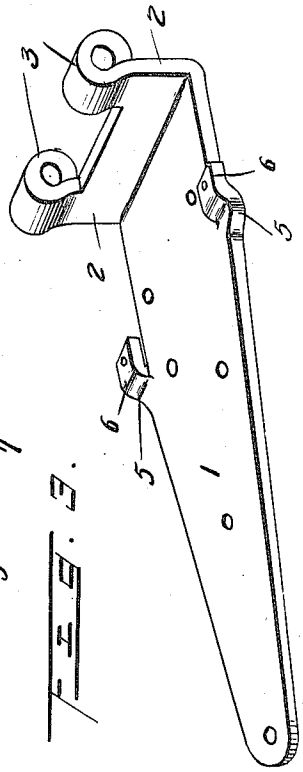


FIG. 3.

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HINGE.

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To all whom it may concern:

Be it known that I, ROY L. HALL, a citizen of the United States, residing at Portageville, in the county of New Madrid and State of Missouri, 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.

The invention relates to a hinge of the spring type and provides an article of this nature which will hold a screen door, or like part, either open or closed, as required.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention.

Referring to the accompanying drawings forming a part of the application,

Figure 1 is a plan view of a hinge embodying the invention, with the leaves extended,

Figure 2 is an edge view, and

Figure 3 is a detail view in perspective of one of the hinge members or leaves.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The hinge comprises similar or like members 1 which, as shown, consist of leaves or straps. Each member or leaf 1 is provided at its inner or hinge end with an offstanding portion 2 preferably disposed at a right angle to the plane of the leaf whereby, when the two leaves are pivotally connected and extended, the parts 2 are in abutting relation and limit the opening of the hinge. The offstanding portions 2 constitute abutments or stops to limit the opening of the hinge. Matching knuckles 3 are provided at the outer edges of the parts 2 and receive a pintle 4 whereby the members or leaves 1 are pivotally connected.

Each member or leaf 1 is provided at opposite edges and at a short distance from the offstanding portion 2 with opposed lateral wings 5 which have their terminal portions 6 offset and apertured. Contractile helical springs 7, disposed at the sides of the hinge, are connected at their ends to the offset portions 6 of the wings 5 at the same side of the hinge. The springs 7 are at all times under tension and being disposed to one side of the axis or pivot of the hinge, operate to hold the latter either in open or closed position with the result that a screen door or like part may be held closed or in open position as required. The wings 5 of each of the members or leaves 1 are disposed a like distance from the pivot ends of the hinge members and this distance is greater than the distance of the pivot 4 from the plane of the leaves when extended, whereby the springs 7 may operate to hold the hinge either in open or closed position, as required. The outline and relative size of the parts may vary according to the design, finish and size of the hinge.

What is claimed is:

1. A hinge comprising companion members having offset portions at their inner or pivotal ends to form abutments and which are pivotally connected, and a contractile helical spring disposed opposite the hinge joint between the members and connected at its ends to the latter a like distance from the joint and serving to hold the hinge both in open or closed position.

2. A hinge comprising companion members having offstanding portions at their inner or pivotal ends which are pivotally connected, each of the members having opposed lateral projections a like distance from the hinge joint, and contractile helical springs at opposite sides of the hinge and having their ends connected to said lateral projections.

3. A hinge comprising companion members having offstanding portions at their inner or pivotal ends which are pivotally connected, and having opposed lateral wings with their terminal portions offset, and contractile helical springs at opposite sides of the hinge and having their ends connected to the offstanding portions of the lateral wings, said springs serving both to hold the hinge in open or closed position.

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

ROY LEVERNE HALL.

Witnesses:

LUTHER RUDDLE,

LON O. HALL.