R. Drahota.

Hinge.

No. 110,020. Patented Dec. 13, 1870.

Fig. 1.

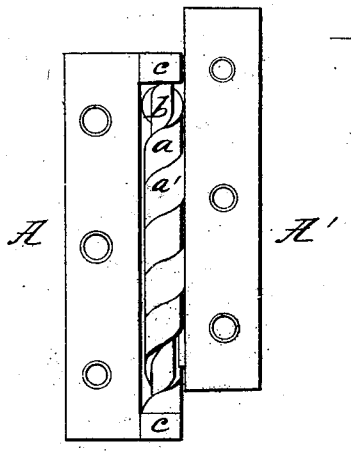
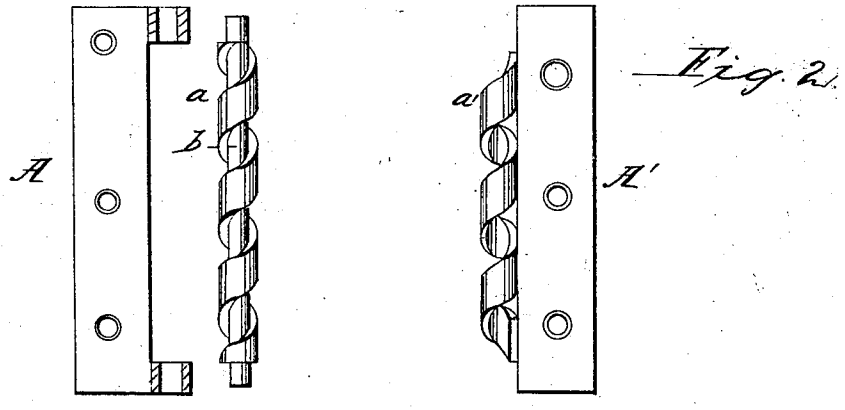


Fig. 2.



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United States Patent Office.

RUDOLF DRAHOTA, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 110,020, dated December 13, 1870.

IMPROVEMENT IN HINGES.

The Schedule referred to in these Letters Patent and making part of the same.

I, RUDOLF DRAHOTA, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an "Improvement in Hinges," of which the following is a specification.

Nature and Object of the Invention.

My invention relates to an improvement in what are known as spiral hinges, and

My invention consists of a leaf having at one edge a hollow spiral projection adapted to a spiral projection on a pin connected to the other leaf, as fully described hereafter.

Description of the Accompanying Drawing.

Figure 1 is a side view of my improved hinge, and Figure 2, a view representing parts of the hinge detached from each other.

General Description.

A and A′ are the two leaves of the hinge, in each of which are openings for the passage of screws, by which it may be secured in the usual manner to a door or other object.

At the edge of one leaf are two lugs or projections, *c c*, recessed for the reception of the ends of a pin or rod, *b*, on which is a spiral projection, *a*, adapted to a hollow spiral projection, *a′*, on the edge of the opposite leaf.

The pin *b* is screwed into the hollow spiral projection *a′*, and its ends are then introduced into the recessed lugs *c c*, and are there secured by solder or otherwise; the two leaves of the hinge being thus connected together.

If the leaf A is secured to a door-frame, and the leaf A′ to the door, the hinge, on the door being opened, will assume the position shown in fig. 1, so that, when the door is released, the leaf A′ will descend, traversing the inclined or spiral edge of the projection on the pin *b*, carrying with it the door, and thus closing the latter.

Spiral hinges have heretofore been made by casting one leaf upon a spiral projection formed on the opposite leaf; but a hinge of this character is so expensive to manufacture that it is not available for any ordinary purposes.

All the parts of the above-described hinge may be cast separately and without difficulty, and may be quickly connected together; the cost of manufacturing the hinge being such that it may be economically employed as a substitute for ordinary hinges, while all the advantages of a combined hinge and door-spring are obtained.

The pin *b* may be cas ith the projection *c* upon the same, or the latter may be formed by winding a plate spirally round the pin.

Claim.

A hinge consisting of the leaf A′, having a hollow spiral projection, *a*, the leaf A, and the pin *b*, with its spiral projection *a′* adapted to the projection on the leaf A′, and connected to the leaf A, as specified.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

RUDOLF DRAHOTA.

Witnesses:

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