J. HARRINGTON. Spring-Hinge.

No. 196,355.

Patented Oct. 23, 1877.

Fig:l.



Fig:2.

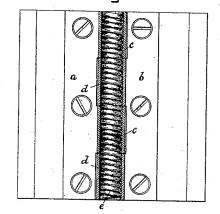


Fig:3.



Fig:4.



Witgesses. S. G. Perkins. V.J. Gratt. Inventor.

John Harrington
by Corosby Stregory Attys

UNITED STATES PATENT OFFICE.

JOHN HARRINGTON, OF RYDE, ISLE OF WIGHT, ENGLAND.

IMPROVEMENT IN SPRING-HINGES.

Specification forming part of Letters Patent No. 196,355, dated October 23, 1877; application filed September 17, 1877; patented in England, April 26, 1876, for fourteen years.

To all whom it may concern:

Be it known that I, John Harrington, of Ryde, Isle of Wight, England, have invented an Improvement in Spring-Hinges, and for which I have previously taken out English Letters Patent No. 1,758 of 1876, of which the

following is a specification:

This invention relates to spring-hinges for use in connection with doors, gates, &c.; and consists in the combination, with the leaves or halves of a fast-joint hinge, of a spiral spring, connected at its opposite ends with the two hinge-leaves, the spring alone serving as the pintle, as hereinafter more fully described and claimed.

Figure 1 represents my improved hinge in top view, it being opened; Fig. 2, a front view when opened; Fig. 3, a top view, the hinge being closed; and Fig. 4, a modification, showing the invention applied to a double hinge.

The two leaves a b of the hinge and their knuckles c d are made as in common fast-joint hinges or butts. The plates will have a greater or less number of knuckles, according to the

size and purpose of the hinge.

Instead of fastening the leaves together by the insertion of a rod or pintle through the knuckles, as commonly done, I employ a spiral spring, e, and connect it at top with one leaf, a, and at bottom with the other leaf, b, so that the torsional action of the spring will have a tendency to retain the hinge closed or shut.

A hinge so constructed will be perfectly selfclosing, and may be advantageously used in

various places.

I do not, broadly, claim the use of a spiral spring at the joint of a hinge to make it selfclosing when such spring is used with a pintle or with plug-caps.

This spiral-spring pintle is specially advantageous when applied to double self-closing hinges, adapted to open from either side in either direction, as in Fig. 4.

I claim-

As a new article of manufacture, a self-closing spring-hinge without pintle, the leaves a b of which are held together by means of a coiled spring, e, extended through the knuckles c of the leaves, and connected at top with one leaf, and at bottom with the other leaf, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two sub-

scribing witnesses.

JOHN HARRINGTON.

Witnesses: G. W. GREGORY, W. J. PRATT.