

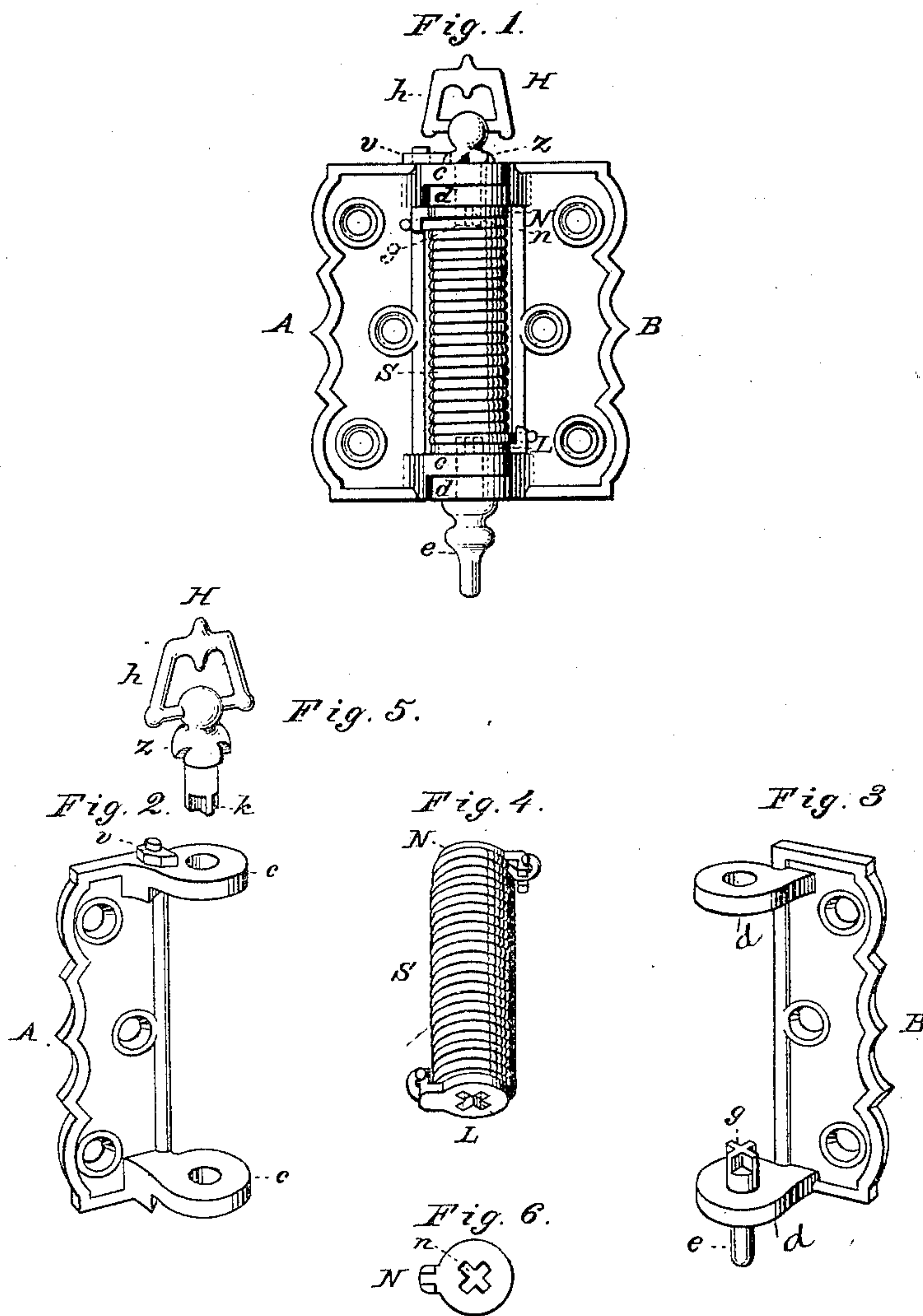
(No Model.)

B. COLVIN & J. WOLFLEY.

SPRING HINGE.

No. 318,418.

Patented May 19, 1885.



WITNESSES

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UNITED STATES PATENT OFFICE.

BENONI COLVIN AND JOHN WOLFLEY, OF FREEPORT, ILLINOIS.

SPRING-HINGE.

SPECIFICATION forming part of Letters Patent No. 318,418, dated May 19, 1885.

Application filed March 14, 1885. (No model.)

To all whom it may concern:

Be it known that we, BENONI COLVIN and JOHN WOLFLEY, citizens of the United States, residing at Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Spring-Hinges; and we do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a front view of our improved hinge. Fig. 2 is a perspective view of one of the hinge-plates. Fig. 3 is a perspective view of the other hinge-plate. Fig. 4 is a perspective view of the spring with its upper and lower caps. Figs. 5 and 6 are detail views.

This invention has relation to spring-hinges for doors; and it consists in the construction and novel arrangement of devices, all as hereinafter set forth, and pointed out in the appended claims.

In the accompanying drawings, the letter A designates one of the hinge-plates, and B is the other. The hinge-plate A has its journal-lugs *c c* above and below overlapping the lugs *d d* of the hinge-plate B, respectively, and will therefore be designated the "upper" hinge plate or section. The lower lug *d* of the lower hinge-plate is provided with a pintle or journal-stud, *e*, which is rounded in its lower portion where it engages the eye of the lower lug *c* of the plate A, and above this lower rounded portion the stud *e* is provided with a squared or prismatic bearing, *g*, which, when the hinge-sections are put together, projects inward from the lug *c* to engage the lower cap of the spring.

H represents a removable pintle-key, having a thumb-bearing or wrench-bearing, *h*, formed at its top, and extending downward through the eyes of the upper lugs *c* and *d* of the hinge-sections. That portion of this pintle which extends through these eyes is rounded, and inward from this rounded portion extends a squared or prismatic key projection, *k*, which is adapted to engage the upper cap of the spring.

S represents the spring, which is spiral in

form, and is provided at its lower end with the cap L, which is formed with a seat, *m*, to engage the upper part, *g*, of the lower pintle, *e*, and when so engaged is in fixed position with reference to the lower hinge-plate, B. At its upper end the spring is provided with the cap N, which is formed with a seat, *n*, to engage the lower part of the pintle-key H when the latter is placed in position; and as the key H is formed with ratchet-notches in its shoulder *z* to engage a pawl, *v*, on the upper lug *c* it will be apparent that the upper cap of the spring is designed, when adjusted, to have a positive relation to the upper hinge-plate, A.

By turning the pintle-key the tension of the spring can be increased or diminished, or it can be altered from a tension which will close the door to one which will hold it open.

This spring-hinge will also be found convenient on account of the ease with which doors can be hung therewith, or with which the doors can be unhinged.

In taking down the door it is only necessary to remove the pintle-keys from the hinges. The springs will fall out and the door will be removed from the hinge-bearings at once.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

1. A hinge having one section provided with a fixed pintle squared at its upper end portion and rounded between its lower end and base, the other section provided with a removable pintle-key engaging a pawl or bearing thereof, and a spring having end caps engaging the pintle-key and the fixed pintle, substantially as specified.

2. The combination, with the hinge-section A, having a pawl, the hinge-section B, having a fixed pintle squared at its upper end, and the removable pintle-key having a ratchet-shoulder, of the spring provided with end caps engaging the fixed pintle and pintle-key, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

BENONI COLVIN.
JOHN WOLFLEY.

Witnesses:

CHAS. W. SINGER,
JAMES BERGSTRESSER.