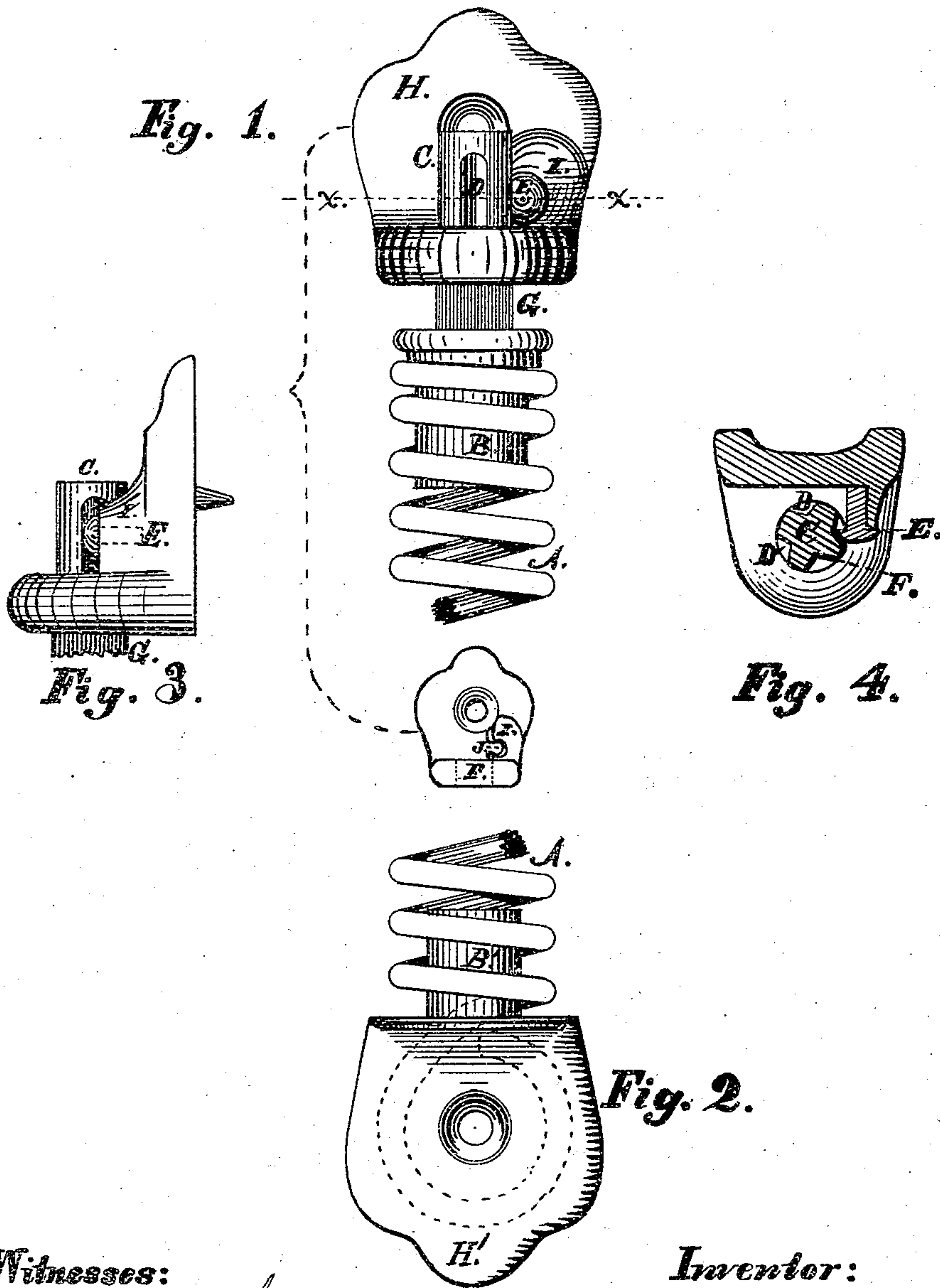


C. S. VAN WAGONER.
Door-Springs.

No. 153,402.

Patented July 21, 1874.



Witnesses:

James A. Skilton,

Thomas Houghton.

Inventor:

Cornelius Van Wagoner.

UNITED STATES PATENT OFFICE.

CORNELIUS S. VAN WAGONER, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN DOOR-SPRINGS.

Specification forming part of Letters Patent No. **153,402**, dated July 21, 1874; application filed June 22, 1874.

CASE C.

To all whom it may concern:

Be it known that I, CORNELIUS S. VAN WAGONER, of the city of Brooklyn, county of Kings and State of New York, have invented a Door, Gate, or Shutter Spring, of which the following is a specification:

The object of my invention is to provide the means of adjusting and detaining the adjustable cap of the coiled gate or door spring with facility, and by the use of cheap and simple devices.

Upon one side of the front face of the top bracket commonly employed in coiled door-springs, and at the angle formed by this front face with the projecting collar, I raise a boss, which stands out to about the center of the perforation in the collar. This boss is perforated by a pin-socket vertically to the face of the bracket, which is open on the side toward the channeled stem. This pin-socket receives a headed pin, the head of which projects far enough over the edge of the hole in the collar to take in the vertical channels cut in the stem of the cap where it projects through the collar.

Figure 1 represents a front view of the top of the door-spring, with the cap, bracket, and details. Fig. 2 represents the bottom of the spring and the bottom bracket. Fig. 3 represents a side view of the top bracket and the channeled stem of the cap. Fig. 4 represents a horizontal section cut on the line *xx*, Figure 1.

A is the spring. B and B' are the lugs on the top cap and the bottom cap and bracket. C is the channeled stem of the cap, and D the channels therein; E, the headed pin; F, the hole through the collar; G, the wrench-seat; H, the top bracket, and H' the bottom cap and bracket, united in one piece; I, the boss; J, the pin-socket.

The form and location of the wrench-seat may be varied, or it may be dispensed with, and holes for a rod-lever be provided in the cap of the spring; or the cap may be revolved by any other known method.

The essential features of my invention are, the pin-socket located on the top bracket parallel to the plane in which the cap rotates, the headed pin, and the channels of the stem arranged to engage the head of the pin.

When the tension of the spring is taken off from the head of the pin by a slight rotary movement of the cap the pin may be released and readily removed by the fingers, and the tension increased or diminished, when the pin may be again inserted so that its head shall take in any one of the channels, and thereby preventing further motion of the cap, and maintaining the tension of the spring.

The boss and pin-seat may be placed on the other side of the bracket face and hole F of the collar, if desired. It could also be located at any other point on the collar, and near the hole therein, but I prefer to place it on the face of the bracket, as shown.

The outer side of the pin-head should be supported by the boss on or nearly on a line with the centers of the channels D.

I claim as my invention—

The boss I, located on the top bracket H, provided with the pin-socket J, open on the inner side, and located parallel to the plane in which the cap rotates, the headed pin E, and the channels D in the stem C, in combination, as and for the purpose set forth.

CORNELIUS S. VAN WAGONER.

Witnesses:

JAMES A. SKILLTON,
THOMAS HOUGHTON.