E. S. HUNT.

Fastenings for Gates and Doors.

No. 207,120. Patented Aug. 20, 1878.

Fig. 1.

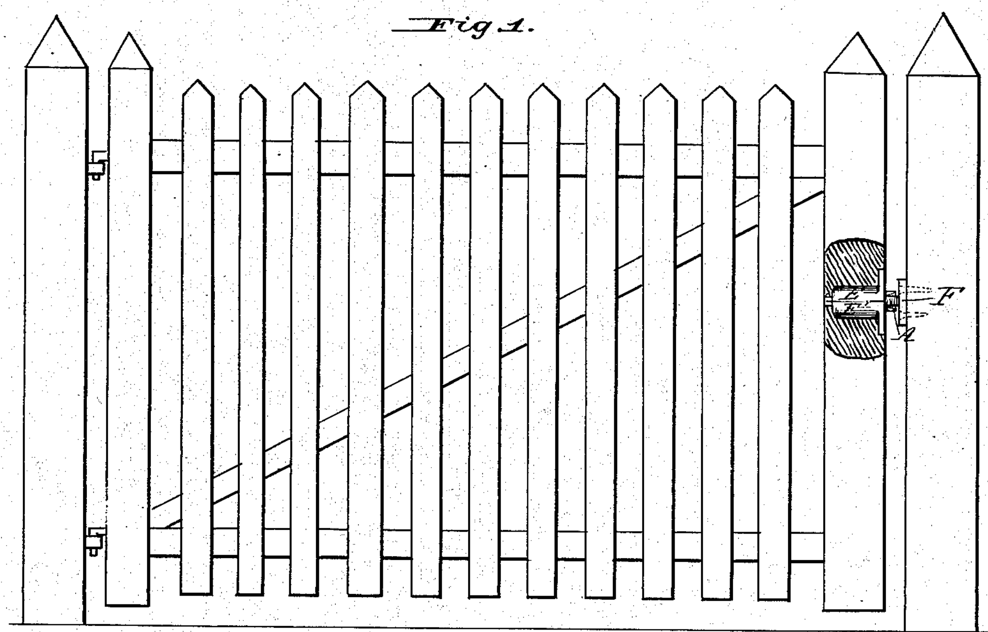


Fig. 2.

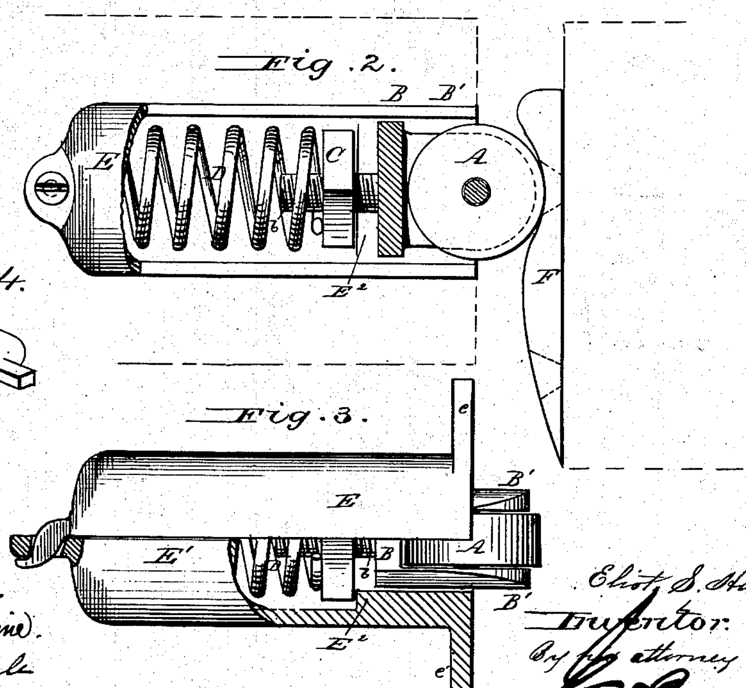
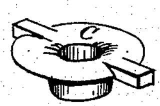


Fig. 3.

Fig. 4.



Attest:

Eliot S. Hunt

Inventor:

By his attorney

UNITED STATES PATENT OFFICE.

ELIOT S. HUNT, OF ELIZABETH, NEW JERSEY.

IMPROVEMENT IN FASTENINGS FOR GATES AND DOORS.

Specification forming part of Letters Patent No. **207,120**, dated August 20, 1878; application filed May 15, 1878.

To all whom it may concern:

Be it known that I, ELIOT S. HUNT, of Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Fastenings for Gates, Doors, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a cheap and substantial self-operating fastening for gates, &c.

It consists of a bolt carrying an anti-friction wheel or roller at one end, said bolt being provided with an encircling-spring and a nut for adjusting the same, the whole being inclosed in a case, which is adapted to be driven into the stile of a gate.

In the accompanying drawings, Figure 1 is a plan view of a gate with the front stile partly broken away to show the bolt-case in position. Fig. 2 is a plan view of my fastening, the case being partly broken away to show the construction of the spring-bolt. Fig. 3 is a similar view looking from another direction. Fig. 4 is a modified form of the spring-adjusting nut.

The same letters of reference are used in all the figures to designate identical parts.

A is the anti-friction wheel, pivoted between the forked ends B′ B′ of the wheel-frame B. Said wheel-frame B has extending from it a screw-threaded shank, *b*, carrying a nut, C, provided for the purpose of regulating the tension of spring D, which is confined between said nut C and the rear or closed end of the case. The device so far described constitutes a spring-bolt.

The case is cylindrical in form and is composed of the parts or semi-cases E and E¹, which are fastened together by means of a screw passing through lugs formed on the rear ends of these semi-cases, as shown in Fig. 2, or the lugs may be so formed as to interlock, as shown in Fig. 3.

The semi-cases E and E¹ are provided, respectively, with lugs *e* and *e′*, which project outwardly at right angles from the outer end of the case. A shoulder, E², is formed on the interior of each semi-case, which shoulders are adapted to support the nut C against the outward thrust of the spring D. These shoulders also serve the purpose of preventing the wheel-frame B from turning in the case, the wheel-frame being oblong in cross-section, and the part of the case in which said wheel-frame plays being of like form interiorly.

The tension of the spring is regulated by turning the nut C upon the screw-threaded shank *b* of the wheel-frame.

The parts, when properly adjusted, are placed in the case, which is then inserted in an auger-hole in the front stile of the gate, and securely fastened by means of screws passing through the lugs *e e′*.

On the gate-post I fasten the plate or keeper F, provided with a depression near its center and inclines on either side thereof.

In the drawings, Fig. 2, I have shown this plate with a long incline leading up to the depression on one side, and on the other the incline is more abrupt, to act as a stop for the roller; but, when it is intended that the gate shall swing both ways, a long incline is provided on each side of the plate, so that the roller may easily ride over it and enter the depression.

In Fig. 4 I have shown a modified form of the nut for adjusting the tension of the spring.

Although I have described this invention as applying more particularly to gates, it will be readily seen that it may also be used on doors, shutters, &c.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a fastening for gates, doors, &c., the combination, substantially as specified, of the bolt, the roller on one end of it, the encircling-spring, the adjusting-nut, and the two-part case or barrel.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ELIOT S. HUNT.

Witnesses:

JOSEPH D. LOWDEN,

BYRON WHEELER.