R. M. C. PARKER.

Spring-Hinges.

No. 167,114. Patented Aug. 24, 1875.

Fig. 1.

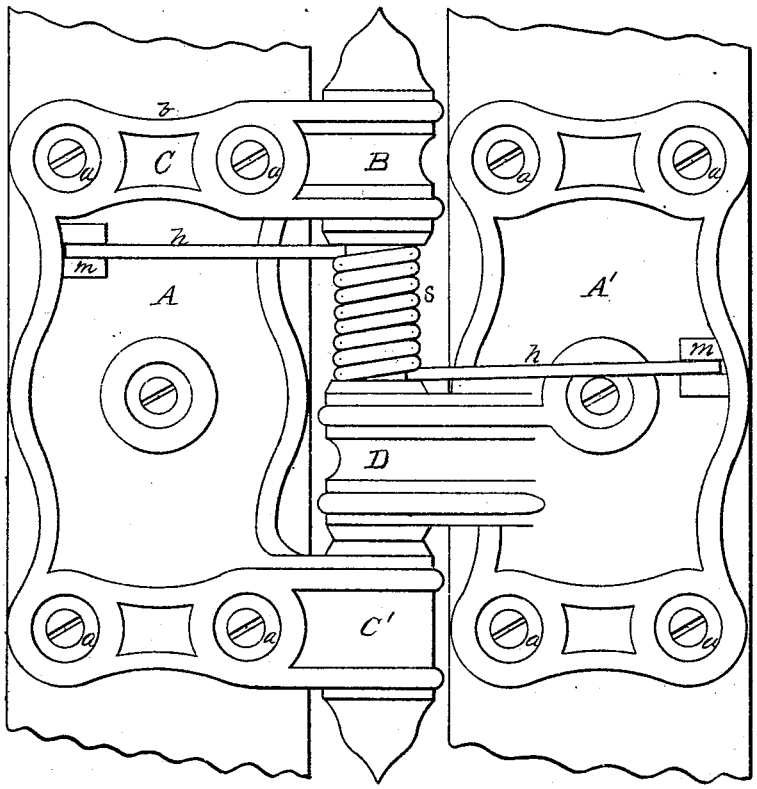


Fig. 2.

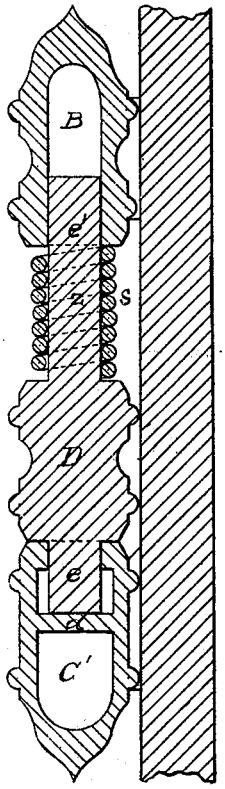
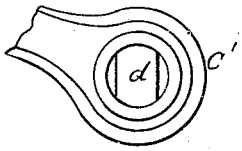


Fig. 3.



WITNESSES

Mary F. Utley.

Emory H. Bates

INVENTOR

R. M. C. Parker,

Chipman & Brown, C.

ATTORNEYS

UNITED STATES PATENT OFFICE.

RICHARD M. C. PARKER, OF MEMPHIS, TENNESSEE.

IMPROVEMENT IN SPRING-HINGES.

Specification forming part of Letters Patent No. **167,114**, dated August 24, 1875; application filed June 26, 1875.

To all whom it may concern:

Be it known that I, RICHARD M. C. PARKER, of Memphis, in the county of Shelby and State of Tennessee, have invented a new and valuable Improvement in Hinges; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my hinge. Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a detail view thereof.

This invention has relation to certain improvements in hinges; and it consists in the construction and novel arrangement of the oil-cup and its transverse bearing for the lower end of the journal, the hollow cup-plate, the upper end of the same, the spindle-leaf, and the spring and its bearings, all as hereinafter fully shown and described.

In the accompanying drawings, the letters A A′ indicate the leaves of my hinge, each of which is provided with suitable screw-holes, *a a*. The leaf A is recessed at its upper end, as shown at *b*, for the reception of the cap-plate C, which is also provided with screw-holes corresponding to those in the upper end of the plate A. The cap B is formed on the projecting end of the plate, and is in the form of an inverted hollow socket, the exterior being finished in conical or other ornamental form. On the lower end of the leaf A is formed a socket, C′, projecting somewhat obliquely, so as to be above the level of the leaf. This socket is of sufficient depth to hold a quantity of oil, and within it is cast a transverse bar or bearing, *d*, upon which the lower end of the spindle or journal-bar rests, the upper end of the same being received into the hollow of the cap B. On the leaf A′ is cast the oblique lug D, from which extend upward and downward the spindle arms or journals *e e′*, which bear, as above stated, in the oil-socket and cap, respectively. The arm *e* is elongated at *z*, in order to receive between the lug D and its bearing in the cap the central coil of a spring, *s*, the arms of which, extending outward, as shown at *h h*, are seated in grooved lugs *m*, cast on the leaves of the hinge. The spring, when thus arranged, serves to keep the leaves spread apart, in which position they are designed to stand when the door or gate to which they are applied is closed. The spring is kept on the arm of the journal by the cap, in which said journal has its bearing.

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

1. A hinge-leaf having an oil-socket, C′, and within the same the transverse bearing *d*, cast with said leaf and socket, substantially as specified.

2. The combination, with the leaves A A′, removable cap B, and spindle-arm *e′*, of the spring *s* and its spread arms *h h*, bearing in recesses *m* in said leaves, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

RICHARD M. C. PARKER.

Witnesses:

J. V. SAVAGE,

JULIUS BEEHLER.