(Model.)

L. BOMMER.

SPRING HINGE.

No. 383,554. Patented May 29, 1888.

Fig. 1.

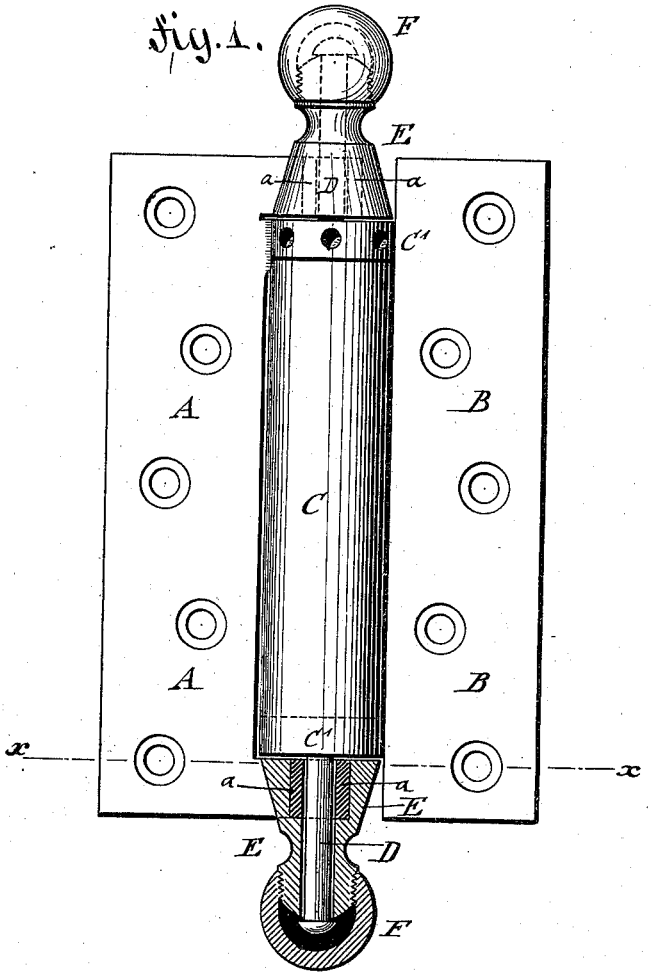

Fig. 2.

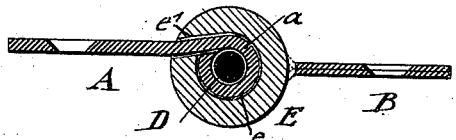

Fig. 3.

WITNESSES:

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LORENZ BOMMER, OF BROOKLYN, NEW YORK.

SPRING-HINGE.

SPECIFICATION forming part of Letters Patent No. 383,554, dated May 29, 1888.

Application filed May 17, 1887. Serial No. 238,448. (Model.)

To all whom it may concern:

Be it known that I, LORENZ BOMMER, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Spring-Hinges, of which the following is a specification.

This invention relates to certain improvements in spring-hinges, by which a more reliable and stronger connection between the pintle-sockets of the hinge and the leaf attached to the door frame or casing is obtained, and by which a better appearance is imparted to the hinge; and the invention consists, first, of the combination of a leaf attached to the door-frame and provided with pintle-sleeves made integral therewith with pintle-sockets having an interior cavity and a lateral recess fitting over said sleeves.

The invention consists, secondly, of the combination, in a spring-hinge, of pintle-sockets having threaded ends or shanks with detachable and interchangeable caps fitting over the ends or shanks of said pintle-sockets.

In the accompanying drawings, Figure 1 represents a side elevation, partly in section, of my improved spring-hinge. Fig. 2 is a horizontal section on line *x x*, Fig. 1; and Fig. 3 is a detail view of one of the pintle-sockets, showing the recess for connecting it with the leaf attached to the door-frame.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the leaf of a door-hinge, which leaf is attached to the door frame or casing.

B represents the leaf attached to the door, said leaf being made integral with the spring-inclosing barrel C. The pintle D passes through the center of the spring-barrel C and the adjustable spring-sockets C′ of the same, and through pintle-sockets E, which are secured to pintle-sleeves *a*, that are made integral with the leaf A, as shown in Fig. 2.

The pintle sockets E E are made of cast metal, provided with an interior cylindrical cavity, *e*, and a lateral recess, *e′*, as shown clearly in Figs. 2 and 3 of the drawings. The recessed sockets *e e′* are fitted over the pintle-sleeves *a* of the leaf A, so as to be rigidly secured thereto. The ends or shanks of the pintle-sockets E are screw-threaded and provided with detachable caps F, of any suitable ornamental shape, which caps are screwed on the ends or shanks of the sockets E after the pintle D has been passed through the same and its ends rigidly attached thereto. This is accomplished either by enlarging the end of the pintle D after it has been passed through the pintle-sockets or by attaching said pintle in any other manner to the pintle-sockets, so that it cannot move up or down to change its position. In this manner a strong and durable hinge is obtained by the rigid connection of the pintle-sockets with the pintle-sleeves of the leaf attached to the door-casing, while the working loose of the ornamental tip, which is the great drawback in all hinges in which the ornamental tips are screwed on directly to the pintles, is entirely avoided, and the advantage gained that the ornamental caps on the hinges can be at any time changed at a small expense, and that a great variety of ornamental caps can be kept in stock and applied to the hinges according to the taste of the purchaser.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, in a spring-hinge, of a leaf attached to the door frame or casing, said leaf having pintle-sleeves made integral therewith, pintle-sockets having interior cylindrical cavities and lateral recesses fitting over the pintle-sleeves of the leaf, and a pintle passing through said sleeves and sockets and being rigidly attached to the latter, substantially as set forth.

2. In a spring-hinge, the combination of a leaf having pintle-sleeves made integral therewith, pintle-sockets having interior cavities and lateral recesses fitting over said pintle-sleeves, a pintle passing through said pintle sleeves and sockets and attached to the latter, and detachable caps applied to the screw-threaded shanks or ends of the pintle-sockets, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

LORENZ BOMMER.

Witnesses:
CARL KARP,
MARTIN PETRY.