

G. H. SCHIEK.
SEPARABLE SPRING HINGE.
APPLICATION FILED DEC. 23, 1904.

Fig. 1.

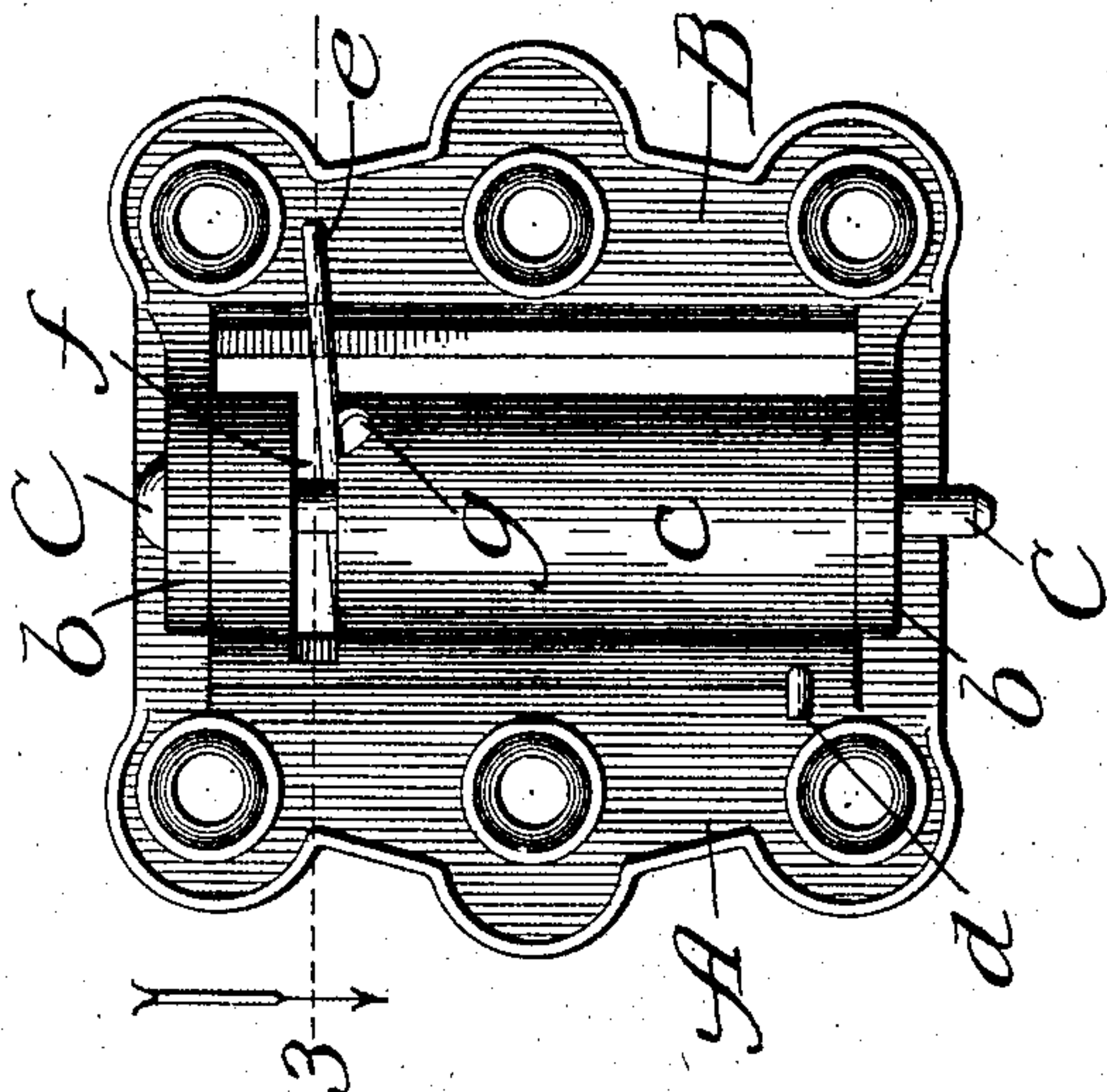


Fig. 2.

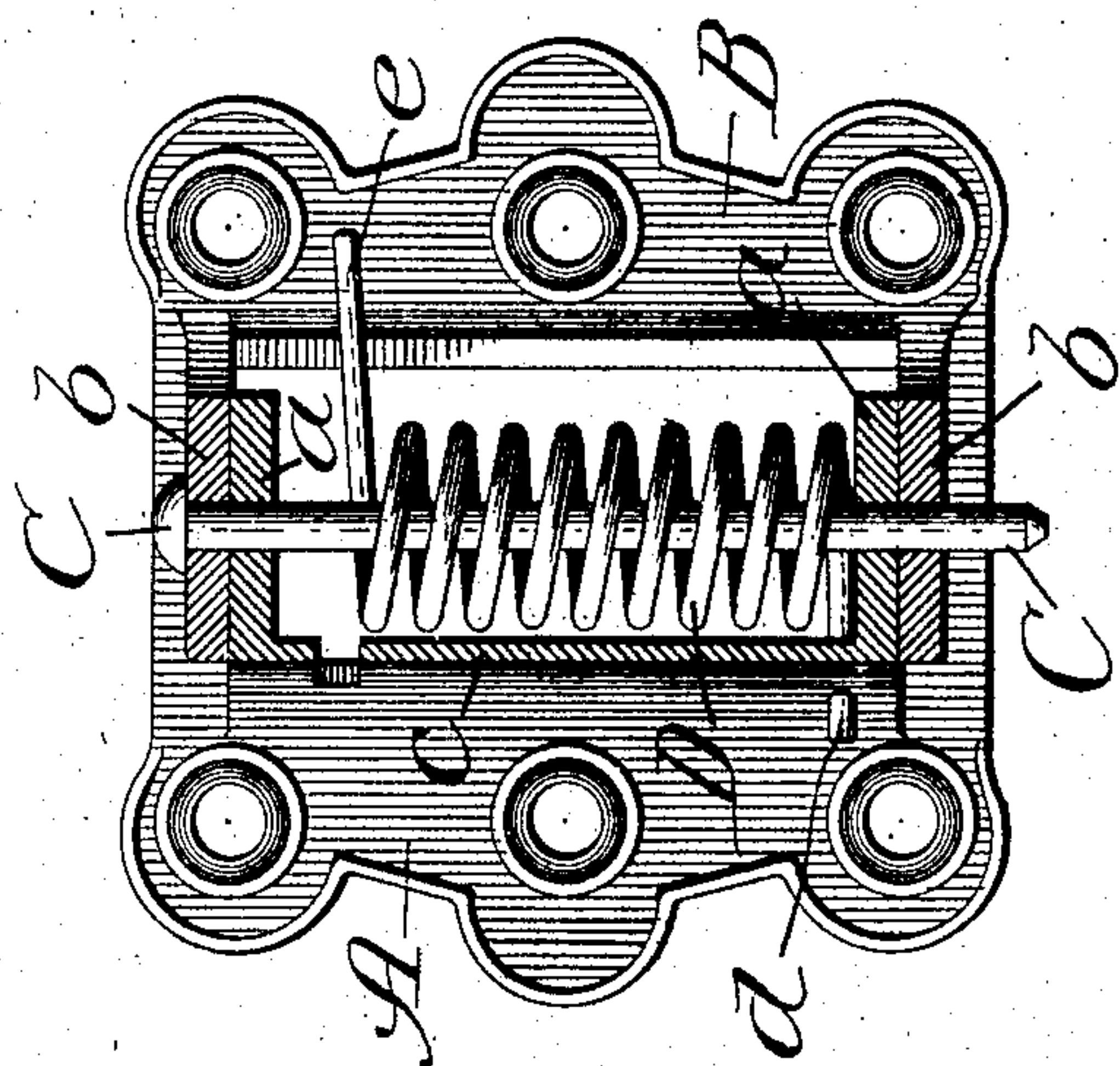
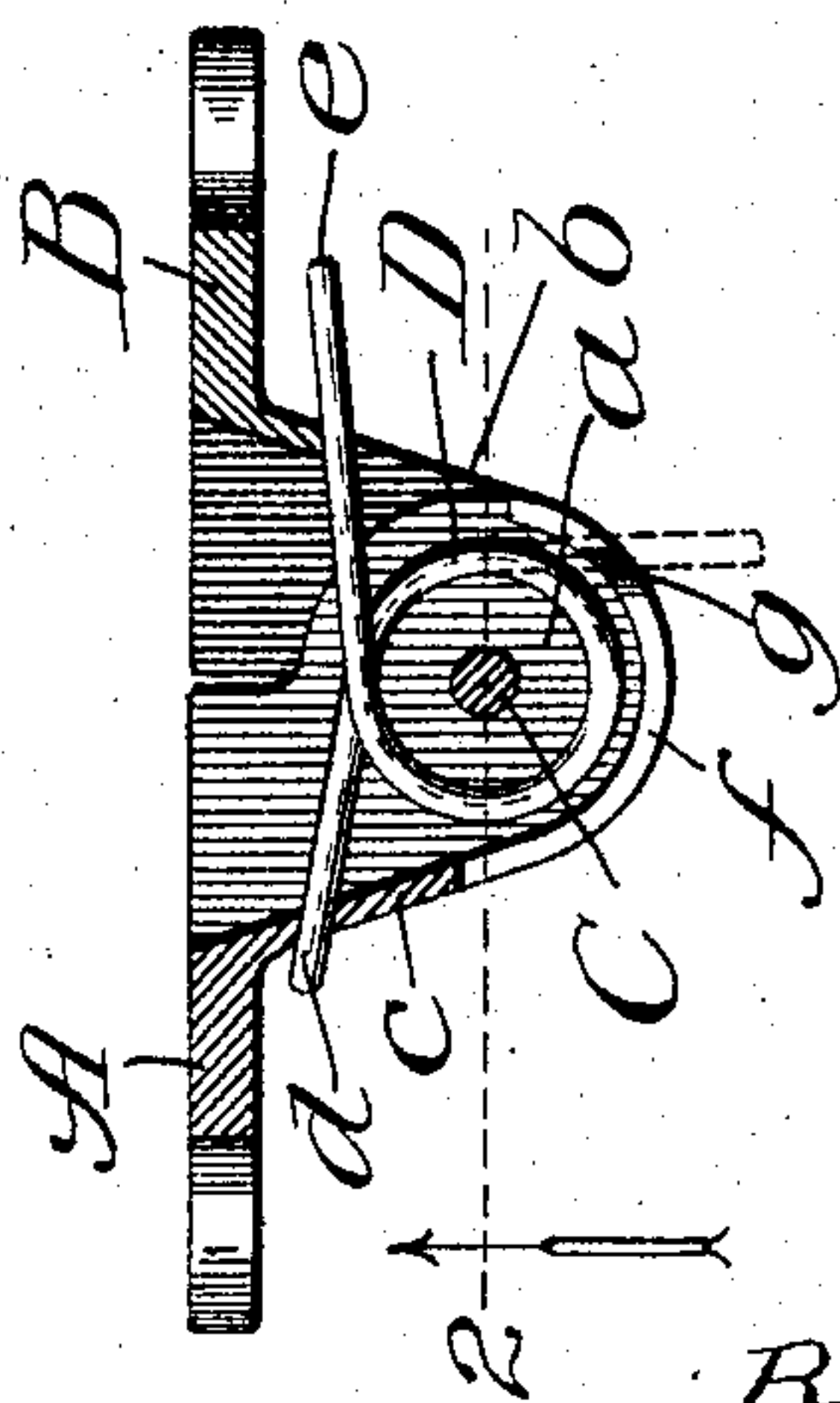


Fig. 3.



Witnesses:
Ed. Gaylord,
Chas. H. Buell.

Inventor:
George H. Schiek,
By Drenforth, Drenforth & Lee,
Attys.

UNITED STATES PATENT OFFICE.

GEORGE H. SCHIEK, OF JOLIET, ILLINOIS.

SEPARABLE SPRING-HINGE.

No. 796,153.

Specification of Letters Patent.

Patented Aug. 1, 1905.

Application filed December 23, 1904. Serial No. 238,097.

To all whom it may concern:

Be it known that I, GEORGE H. SCHIEK, a citizen of the United States, residing at Joliet, in the county of Will and State of Illinois, have invented a new and useful Improvement in Separable Spring-Hinges, of which the following is a specification.

My object is to provide a separable spring-hinge of an improved construction which is in the nature of a simplification of the hinge shown, described, and claimed in the application for Letters Patent filed by me May 2, 1904, Serial No. 205,905, the patent thereon issuing December 27, 1904, No. 778,509.

In the drawings, Figure 1 shows my improved hinge in elevation. Fig. 2 is a section on line 2 in Fig. 3, and Fig. 3 a section on line 3 in Fig. 1.

The companion leaves A B of the hinge are formed at opposite ends with perforated ears *a b*, respectively, those of the leaf B overlapping the ears *a*, as indicated in Fig. 2. Passing through perforations in the overlapping ears is a removable pintle C, which fastens the leaves pivotally together. Forming a part of the leaf A is a spring-housing *c*, of which the ears *a* form the ends. Surrounding the pintle C in the housing *c* is a coiled spring D, one end of which passes through and is permanently held in a perforation *d* in the leaf A and the other end *e* of which bears loosely against the surface of the leaf B. The housing is provided near one end with a slot *f*, in which the end portion *e* of the spring moves in the flexing and extending of the hinge. In one edge or wall of the slot *f*, preferably in the position shown, is a notch *g*, forming a shoulder into which the free end portion of the spring may be forced to lock it against recoil.

In practice the leaf A may be fastened, say, upon a door-casing and the leaf B to a screen-door in a manner to cause the spring normally to close the door and in the opening of

the door to move in the slot *f*. When it is desired to remove the door from the door-casing, it may be partly opened to cause the part *e* of the spring to register with the notch or shoulder *g* and permit it to be forced into the notch to be held against recoil. On removing the pintle from the ears the leaves A B will readily separate, leaving the spring at its free end in the notch *g*. In replacing the door the leaves of the hinge are joined together by the pintle, and in swinging the door open the part *e* of the spring will be freed from the notch or shoulder *g* to act against the leaf B. The tendency of the spring is to slide freely in the slot *f* without engaging the notch or shoulder *g*, which may be in either edge or wall of the slot.

The hinge members may be of cast metal, as indicated, or they may be stamped or otherwise formed out of sheet metal.

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

In a separable spring-hinge, the combination of a pair of leaves provided at their free ends with overlapping ears having coincident pintle-receiving perforations, a spring-housing on one leaf, a removable pintle passing through said perforations to connect the leaves pivotally together and permit by its removal separation of the leaves, a coiled spring about the pintle permanently engaging at one end portion the housing-carrying leaf and removably engaging at its other or free end portion the other leaf, the housing having a slot in which the free end portion of the spring plays in the flexing and extending movements of the spring, and a notch in the edge of the slot adapted to receive and retain the free end of the spring against recoil.

GEORGE H. SCHIEK.

In presence of—

J. H. LANDES,

A. U. THORIEN.