

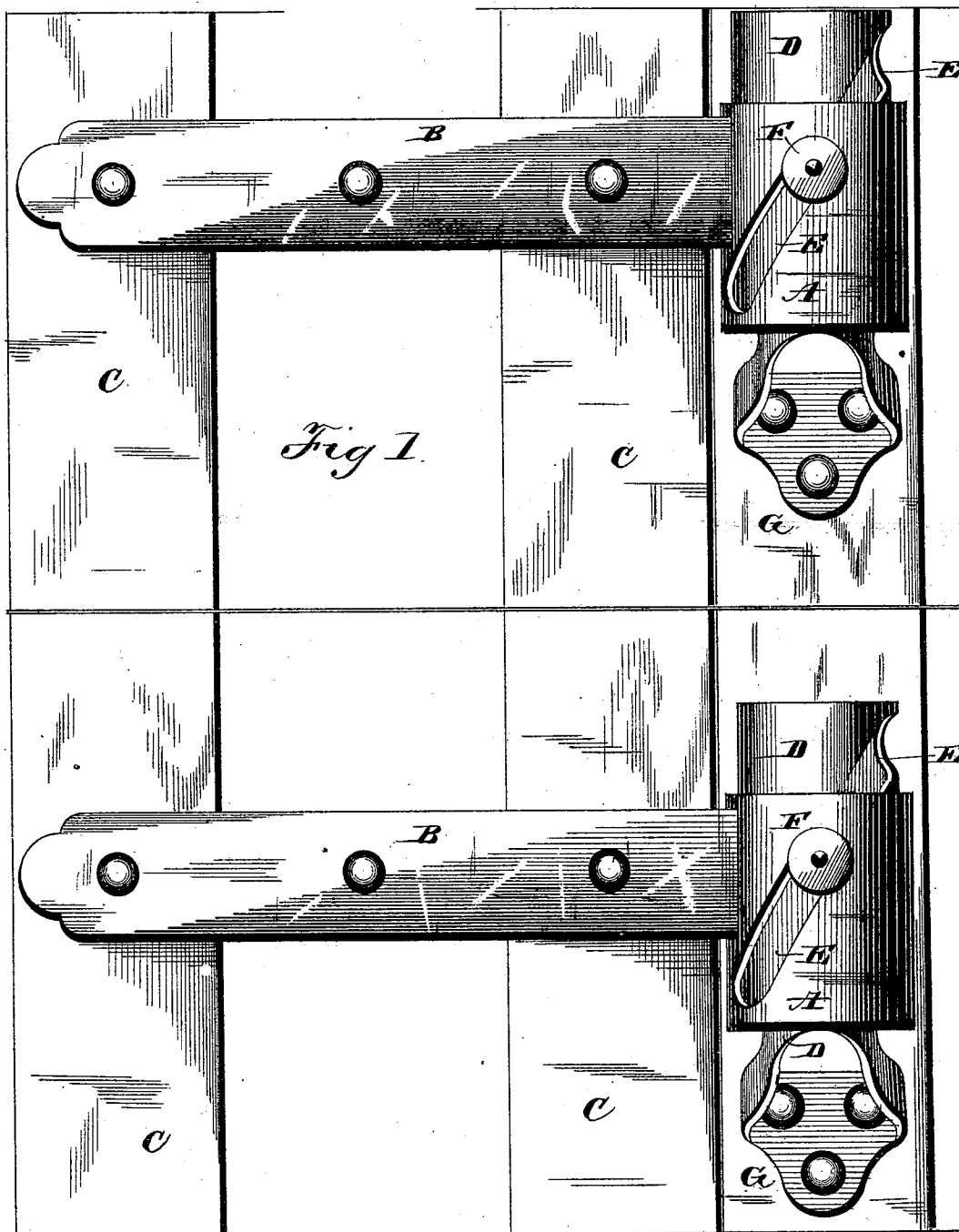
(No Model.)

2 Sheets—Sheet 1.

A. L. SCRANTON.
HINGE.

No. 282,574.

Patented Aug. 7, 1883.



WITNESSES

George Cook
G. F. Downing.

INVENTOR

A. L. Scranton,
R. S. Sargent & Sargent.
Attorney

(No Model.)

2 Sheets—Sheet 2.

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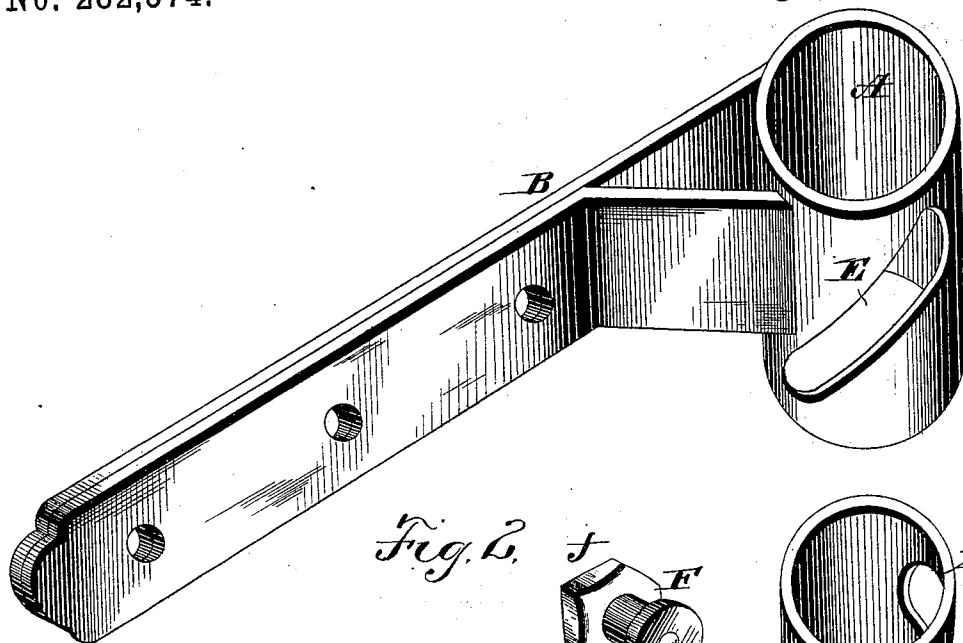


Fig. 1.

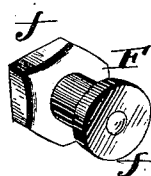
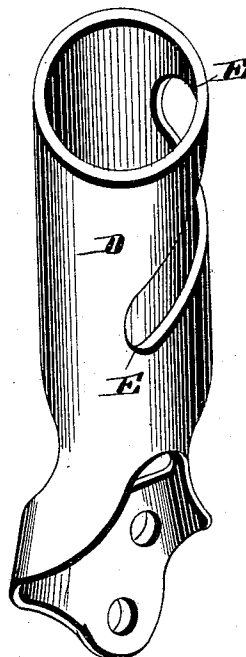
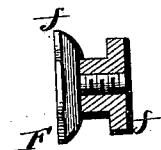
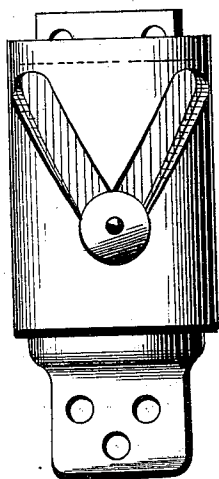


Fig. 3.



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UNITED STATES PATENT OFFICE.

ALFRED L. SCRANTON, OF WESTERN SPRINGS, ILLINOIS.

HINGE.

SPECIFICATION forming part of Letters Patent No. 282,574, dated August 7, 1883.

Application filed May 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALFRED L. SCRANTON, of Western Springs, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hinges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in gate-hinges, the object of the same being to produce a hinge which, when applied to a gate, will automatically close the latter; and with this end in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view of my improvement as applied to a gate, and Fig. 2 is a detached view of the several parts. Fig. 3 is a modification.

A represents a sleeve, to which is rigidly secured the leaf B, the latter being firmly secured to the gate C. The leaf B is preferably made of two sections, one section being secured to the upper portion of the sleeve and the other to the under portion.

D represents a hollow pintle secured to the gate-post G. This pintle is somewhat smaller in diameter than the sleeve A, thus adapting the latter to fit around it, the pintle extending some distance above the said sleeve. The pintle and sleeve are each provided with an inclined slot, E, both slots being on an equal incline, the upper part of the slot in the sleeve registering when the gate is closed with the lower part of that in the pintle, and vice versa when the gate is open.

Traveling in the slots E, and removably securing the sleeve and pintle together, is the roller F, provided with a flange, f, on each end to prevent the same from leaving the slots.

When the gate is being opened the sleeve A turns on the pintle D, which causes the side of

the slot in the sleeve to bear against the roller, which, traveling in the inclined slot in the pintle, raises the said sleeve, and with it the gate C, which, when fully opened, remains in that position due to the direction of the upper portion of the slot in the pintle, which is at an angle with the lower part, thus allowing the roller to remain in that place and hold the gate open. To close the gate it is simply necessary to give it a slight push, thereby entering the roller in the inclined slot. The gate will close by its own weight.

I would have it understood that I do not limit myself to the exact construction shown and described, as many changes may be made without departing from the spirit of my invention—as, for instance, I could construct a lip on either side of the slots and empty balls; and again, the hinge could be constructed to act both ways by forming oppositely-inclined slots in the pintles and sleeves, as shown in Fig. 3. In view of the above facts I hold myself at liberty to make such changes as fairly fall within the spirit and scope of my invention.

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

In a gate-hinge, the combination, with a sleeve and a leaf secured thereto, the latter being secured to a gate, of a hollow pintle secured to a gate-post and adapted to fit within said sleeve, the said pintle and sleeve being provided with inclined slots and rollers, adapted to fit in said slots and automatically close the gate, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ALFRED L. SCRANTON.

Witnesses:

JAMES A. GIESE,
ABNER R. SCRANTON.