

I. C. Sage,

Lock Hinge.

No. 100,453.

Patented Mar. 1. 1870.

Fig. 1

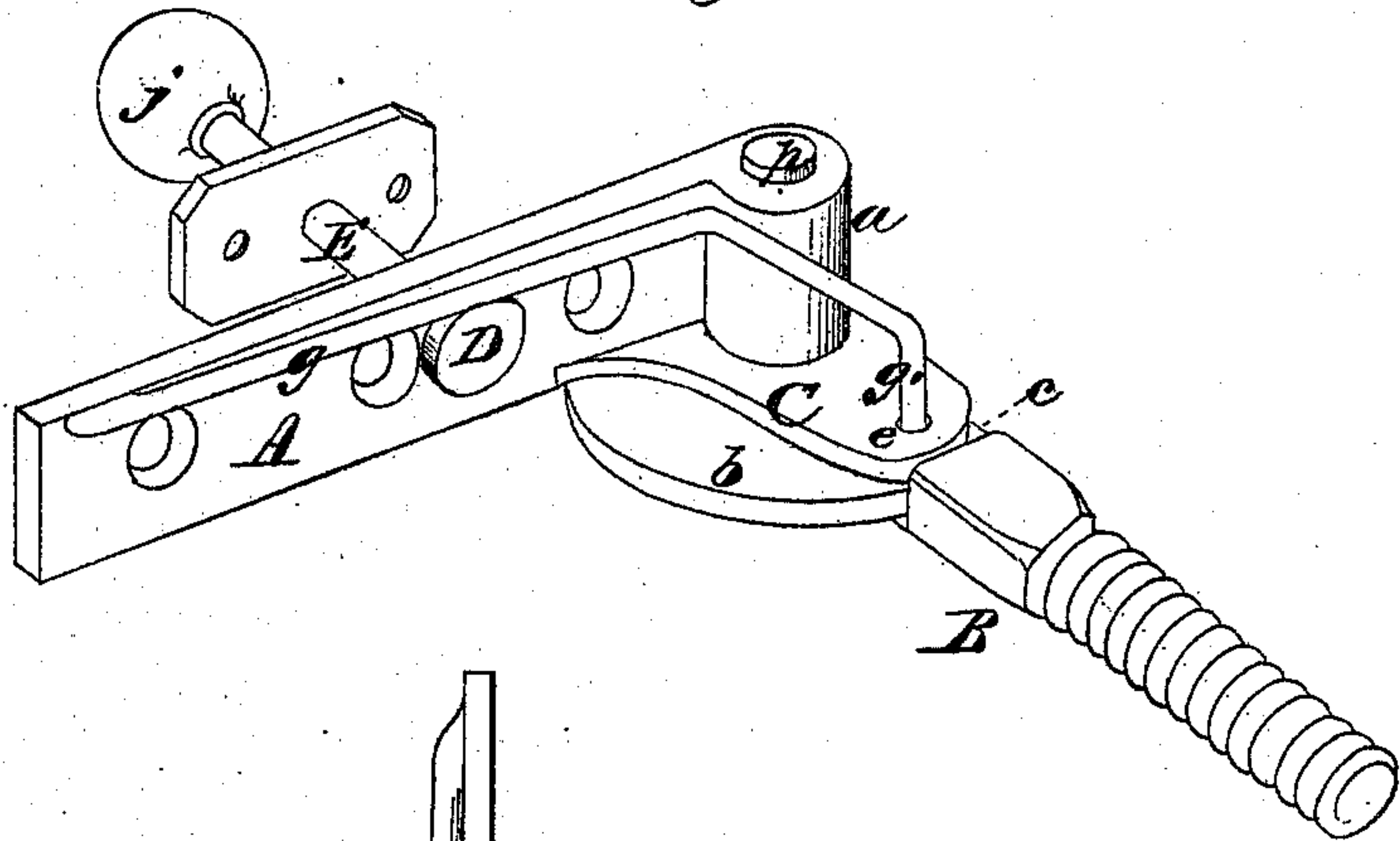


Fig. 2

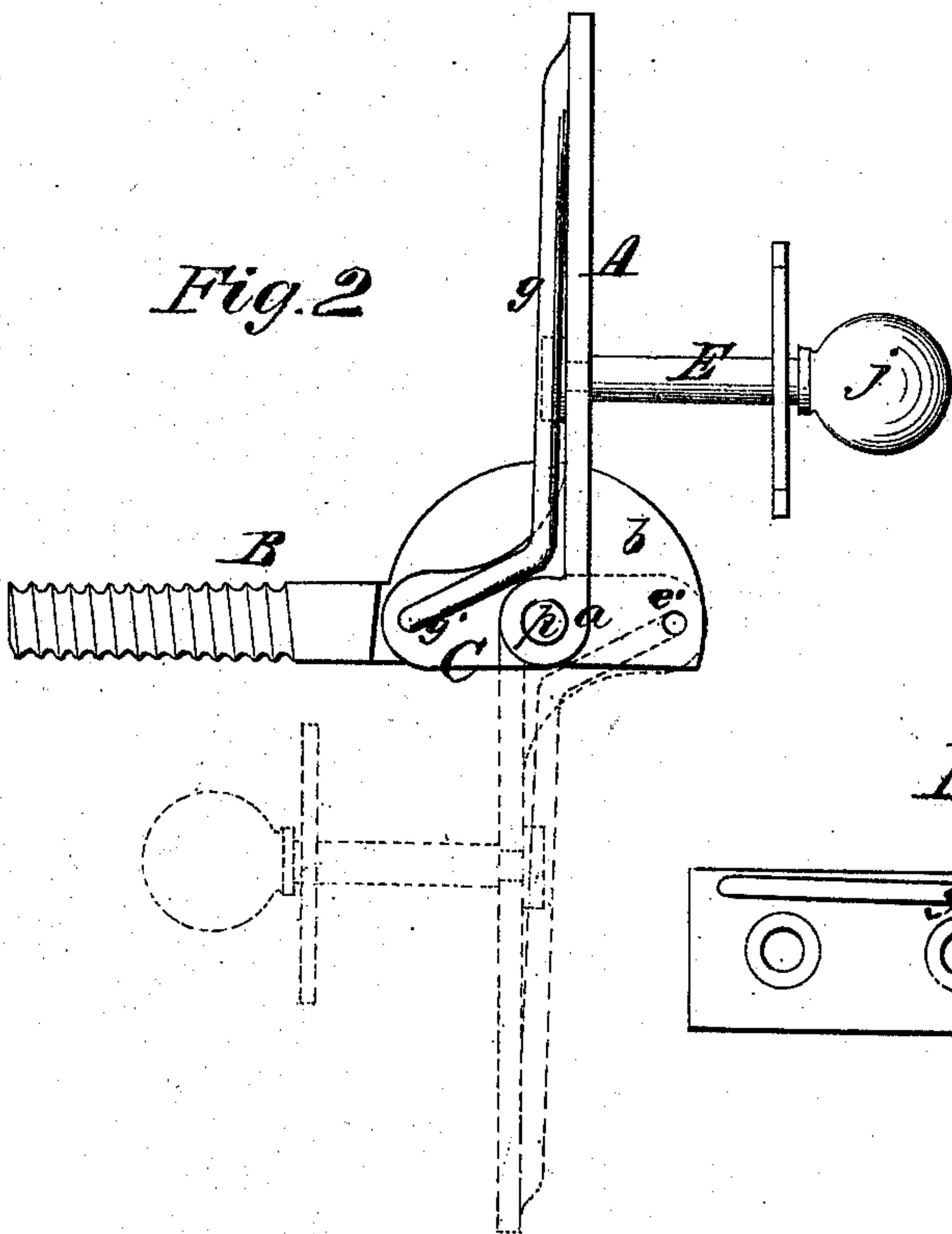
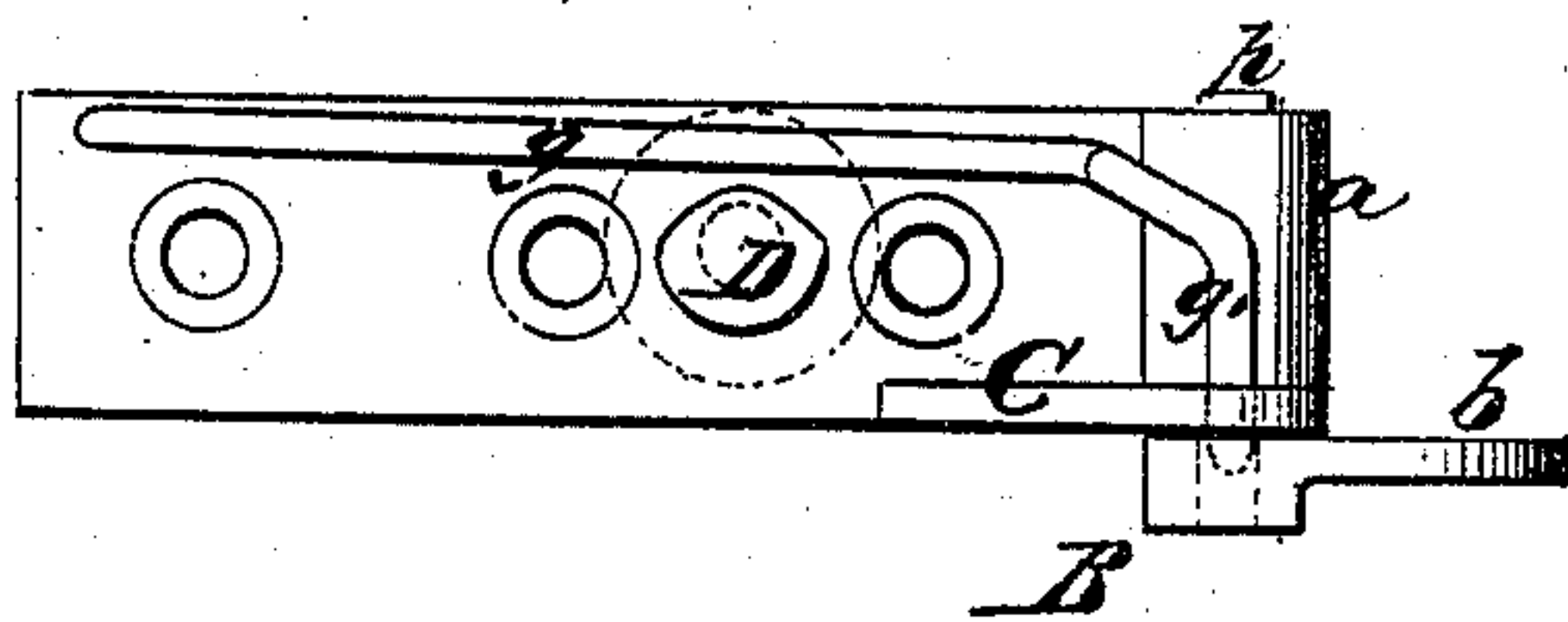


Fig. 3



Witnesses.

R. T. Campbell.
J. N. Campbell.

Inventor

I. C. Sage
by his agents
Marion Fenwick Lawrence

United States Patent Office.

D. C. SAGE, OF MIDDLETOWN, CONNECTICUT.

Letters Patent No. 100,453, dated March 1, 1870.

IMPROVEMENT IN BLIND-HINGES

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, D. C. SAGE, of Middletown, county of Middlesex, and State of Connecticut, have invented a new and improved Blind-Hinge; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a perspective view of the improved hinge.

Figure 2 is a top view of the same, indicated by the aid of dotted lines, in two positions.

Figure 3 is an edge view of the hinge.

Similar letters of reference indicate corresponding parts in the several figures.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings—

A represents the swinging leaf of my improved hinge, which leaf is constructed with an eye, *a*, on one end for receiving and attaching it to a pintle, *p*, that is formed upon the stationary portion B of the hinge.

This leaf A is perforated, for receiving through it the screws that secure it to the blind, and at a suitable point, it is also perforated for receiving through it one end of a stem, E, on which a cam, D, is secured.

The stem E passes loosely through the blind and has a knob or handle, *j*, upon it, by which the cam D can be turned around, either toward the right or left hand.

Above the cam D and on the same side of the leaf A as this cam, is a spring, *g*, one end of which is secured permanently to the leaf, and the other end, *g'*, is bent, as shown in figs. 1 and 2, and inserted through a hole, *e*, made through a web, C, so as to enter either one of two holes *e'*, made into or through a bearing, *b*, which is formed on one end of a screw-

stem, B. The spring *g* is applied to the leaf A, so that its free end, *g'*, will be forced downward upon the flat surface of the bearing *b* while the blind is free to swing, and when the blind is in a position to be secured fast this end *g'* of the spring *g* will be forced into one of the holes *e'* in bearing-plate *b*.

The screw-stem B is constructed with one end flattened, so as to leave upon it a flat semicircular bearing, *b*, through or into which two holes, *e'*, are made diametrically opposite each other in line with the said stem. On this bearing the web C of the leaf A is supported, and from this bearing the pintle *p*, which receives the eye *a* of said leaf, rises perpendicularly.

It will be seen from the above description, that the web C not only strengthens the leaf A and affords it a wide firm bearing upon the surface of plate *b*, but it also keeps the free or locking-end *g'* of spring *g* in place to enter one or the other of the holes *e'* and lock the leaf. It will also be seen that the cam D can be operated conveniently, whether the shutter or blind be open or shut, for raising the free end *g'* of spring *g* out of either hole *e'*, when it is desired to swing open or shut the blind.

When the blind is released, the locking-end of the spring will bear upon the flat face of the plate *b* and be held by the web C, through which it passes.

Having described my invention,

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

The combination and arrangement of the leaf A, perforated web C, screw-stem B, perforated bearing *b*, spring latch *g g'*, cam D, and thumb-shaft E, all constructed and operating in the manner set forth.

D. C. SAGE.

Witnesses:

A. PUTNAM,
JOHN M. UTLEY.