

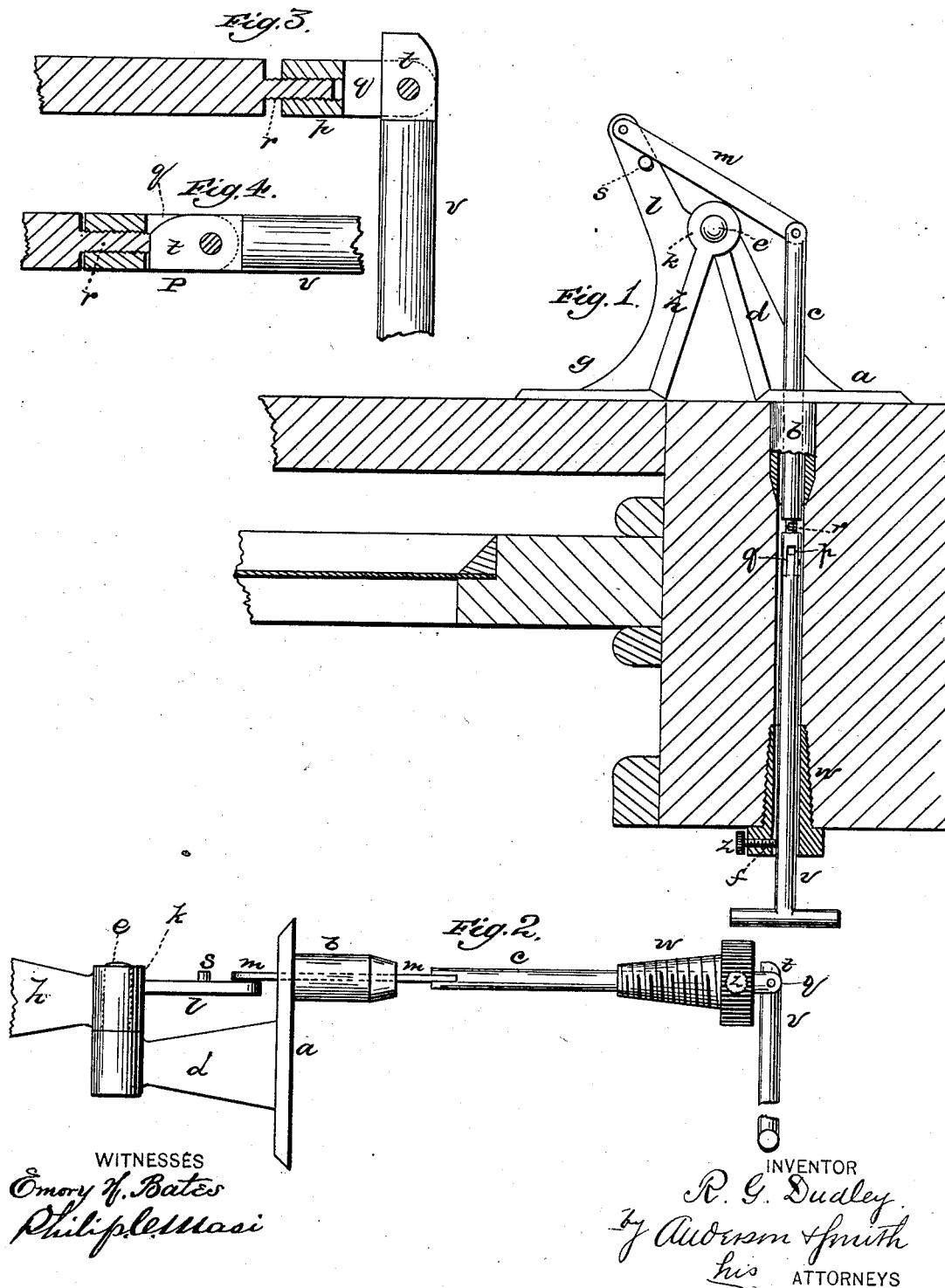
(No Model.)

R. G. DUDLEY.

SHUTTER WORKER.

No. 265,772.

Patented Oct. 10, 1882.



UNITED STATES PATENT OFFICE

RUSSELL G. DUDLEY, OF JERSEY CITY, NEW JERSEY.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 265,772, dated October 10, 1882.

Application filed July 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL G. DUDLEY, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and valuable Improvement in Shutter-Workers; 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 longitudinal sectional view of my shutter-worker. Fig. 2 is a side view of the same detached from the window-frame, and Figs. 3 and 4 are detail views of the operating-rod.

This invention has relation to shutter-workers; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, the letter *a* designates the fixed branch of the hinge, which is provided with a tubular guide-projection, *b*, extending from its inner or bearing surface into the window-casing, and serving to form a long bearing for the operating slide-rod *c*, as well as to brace this branch of the hinge firmly in position. An arm, *d*, projects outward from the base-plate of this branch of the hinge, and carries the pintle *e* at its outer end.

g represents the movable branch of the hinge, which is designed to be secured to the shutter. It is also provided with an outwardly-projecting arm, *h*, having a bearing, *k*, for the pintle *e*, and projecting outwardly from said bearing is an oblique arm, *l*, to the end of which is pivoted a connecting-bar, *m*, which extends to the end of the operating-rod *c*, and is pivoted thereto, as shown in the drawings. On the oblique arm *l* is formed a stud, *s*, which projects near the inner edge of the connection *m* when the shutter is closed, and serves as a fulcrum for said connection, transforming it into a lever when its outer end is pulled inward by the op-

erating-slide *c* in opening the shutter, whereby the initial movement is greatly facilitated. The inner end of the operating-rod is threaded at *r* to receive the internally-threaded end of the adjustable coupling *p*, the other end of which is formed with a forked bearing, *q*, in which the end *t* of the handle-section *v* of said operating-rod is pivoted. The end *t* of this handle-section may be extended to form a lock, whereby the shutter is held open when said section is dropped or hangs pendent in the vertical position. The operating-rod is designed to work through an externally-threaded tubular bearing or bushing, *w*, which is inserted into the casing on the inside of the window. Through the wall of this bushing, at its projecting end, is made a threaded perforation, *f*, to receive a set-screw, *z*, designed to bear against the operating-rod or its handle-section, and serving thereby to hold the shutter in any desired position—open, closed, or bowed at any angle.

An operating-rod with a nut-and-screw connection and a coil-spring is old. A jointed and pivoted operating-rod is also old in shutter-workers, and neither of these constructions are broadly claimed herein.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

A shutter-worker hinge consisting of the fixed branch *a*, having a pintle-carrying arm, *d*, and a tubular bearing, *b*, for the operating slide-rod, and the shutter-branch *g*, having the pintle-bearing *k*, and the oblique arm *l*, extending outwardly therefrom, and having the fulcrum-stud *s* to engage the bar connecting said oblique arm to the operating slide-rod, substantially as specified.

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

RUSSELL G. DUDLEY.

Witnesses:

THEO. MUGEN,
PHILIP C. MASL.