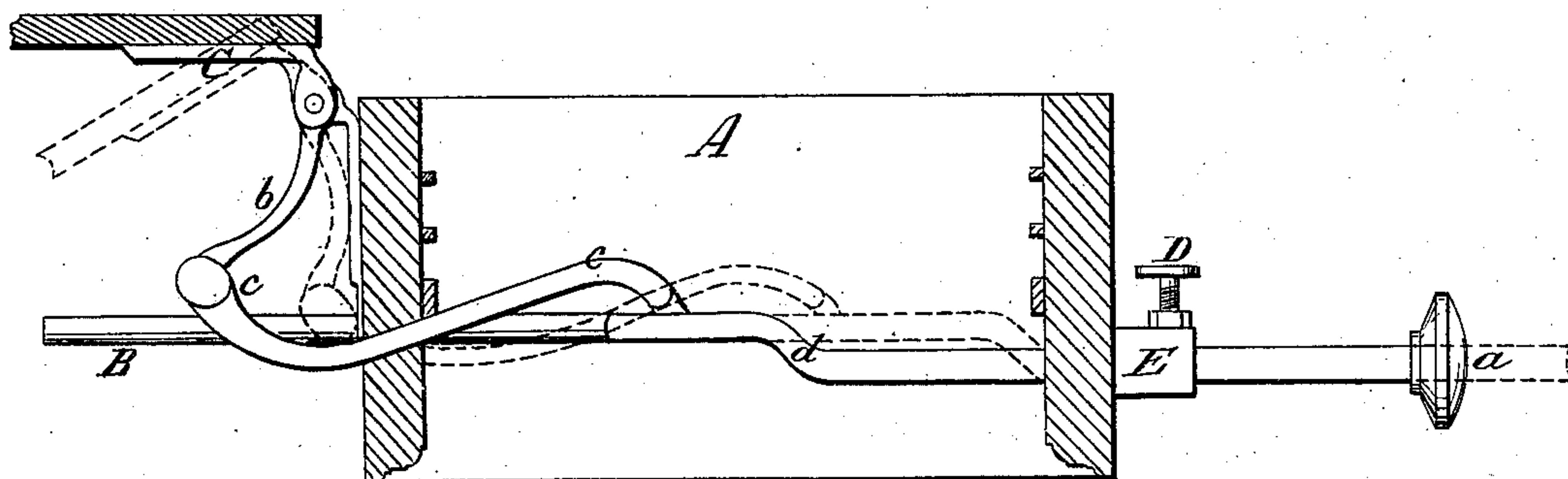


F. E. Brown.
Shutter Worker.
Nº 93,408. Patented Aug. 10, 1869.



Witnesses.

H. F. Everts
John Slater

Inventor.

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F. E. BROWN, OF SPRINGVILLE, IOWA.

Letters Patent No. 93,408, dated August 10, 1869.

IMPROVED SHUTTER-WORKER.

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

To whom it may concern:

Be it known that I, F. E. BROWN, of Springville, in the county of Linn, and State of Iowa, have invented a new and useful Improvement in Apparatus for Operating and Fastening Window-Blinds; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention relates to an apparatus so constructed, that by its use outside window-blinds may be opened and closed, and secured in any desired position by the operator within the house, and without the necessity of raising or opening the window.

The invention consists in a suitable hinge, operated from the interior of the building by means of a rod extending through the window-casing, and connecting with said hinge by a proper arm, the whole so arranged as to operate as herein described.

In order to enable those skilled in the matter to manufacture and operate this device, I will now proceed to name and describe its various parts, their relation to each other, and their operation.

In the drawings, which are a plan view—

A represents a cross-section of a window-frame, through which passes the rod B, provided at its inner end with any plain or ornamented style of handle, *a*, which may be desired.

C is a hinge, which may be of the ordinary construction of window-blind hinges, and is provided with an arm, *b*, to the outer end of which is pivoted the outer

end of the curved lever or connecting-rod *c*, while the inner end of said rod is in turn pivoted to the rod B, which is slightly curved for the purpose, as at *d*.

A metallic socket, E, is secured to the inner face of the window-frame, and through this socket the rod B also passes.

This socket is provided with a set-screw, D, by means of which the rod B may be secured in any desired position.

These hinges and their attachments should be made in pairs, one of each pair being for the right and the other for the left-hand blind.

The drawing represents the apparatus with the blind closed.

By pulling in the rod B, the blind may be opened to any desired position, and secured by means of the set-screw D.

The operation of this device is so simple that a further description thereof is deemed unnecessary.

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

The combination and arrangement of the guide-rod B, provided at one end with a handle, *a*, and set-screw D, for securing it in any position, and the pivoted arm *c*, jointed as described, and hinged to the blind, as and for the purposes above set forth.

F. E. BROWN.

Witnesses:

J. S. LOVE,

E. W. HARTMAN.