

No. 807,606.

PATENTED DEC. 19, 1905.

W. H. DAVIDSON.
PORTABLE WINDOW STAGE.
APPLICATION FILED SEPT. 25, 1905.

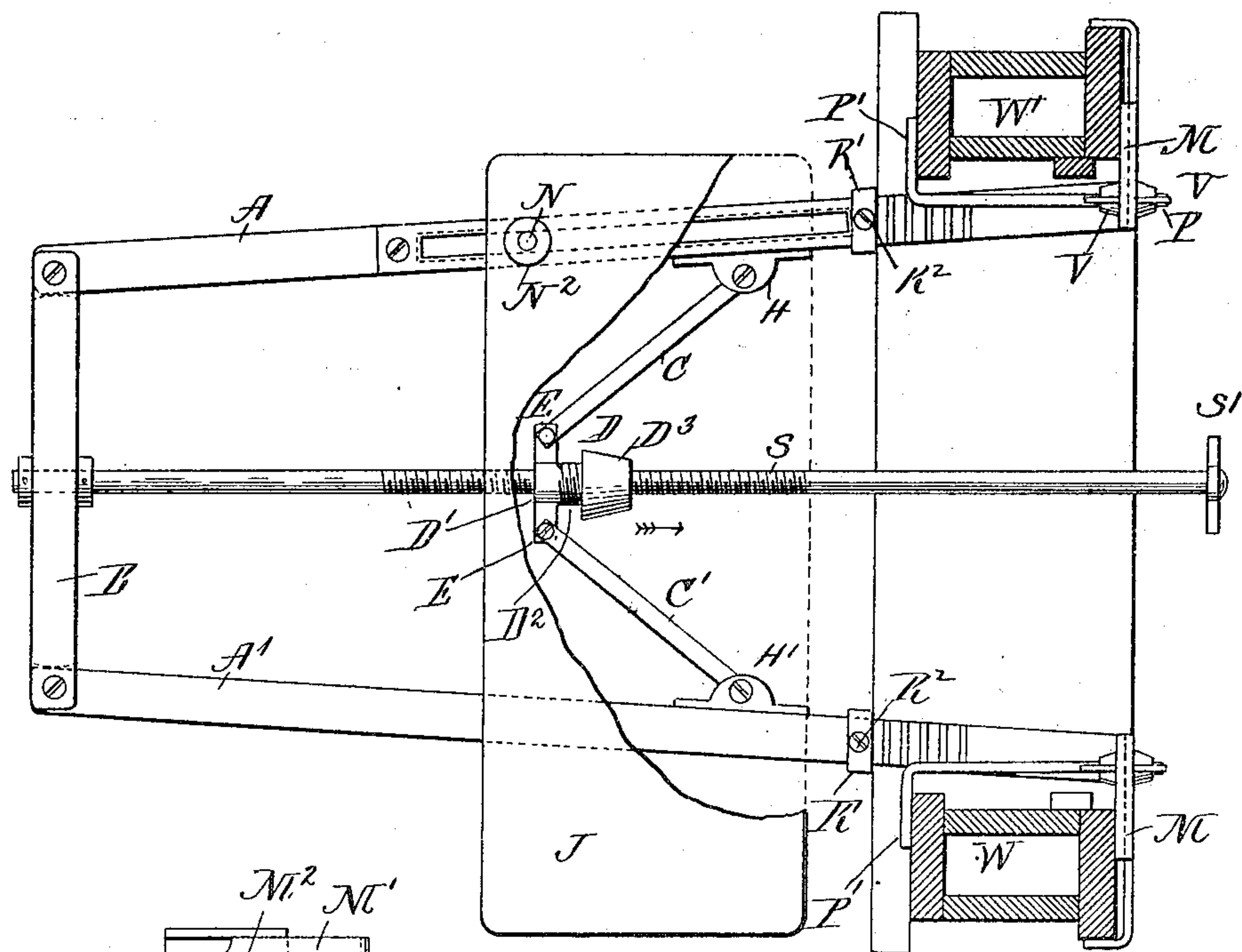


Fig. 1.

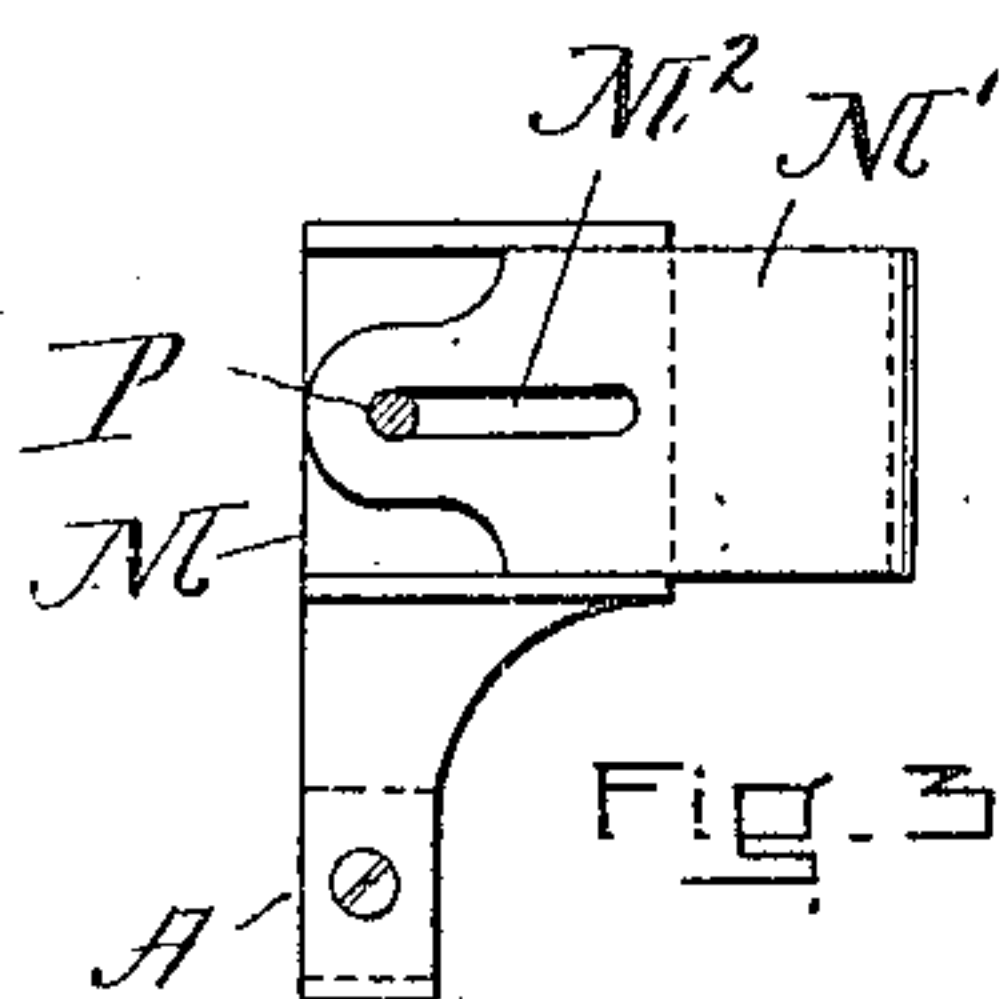


Fig. 3.

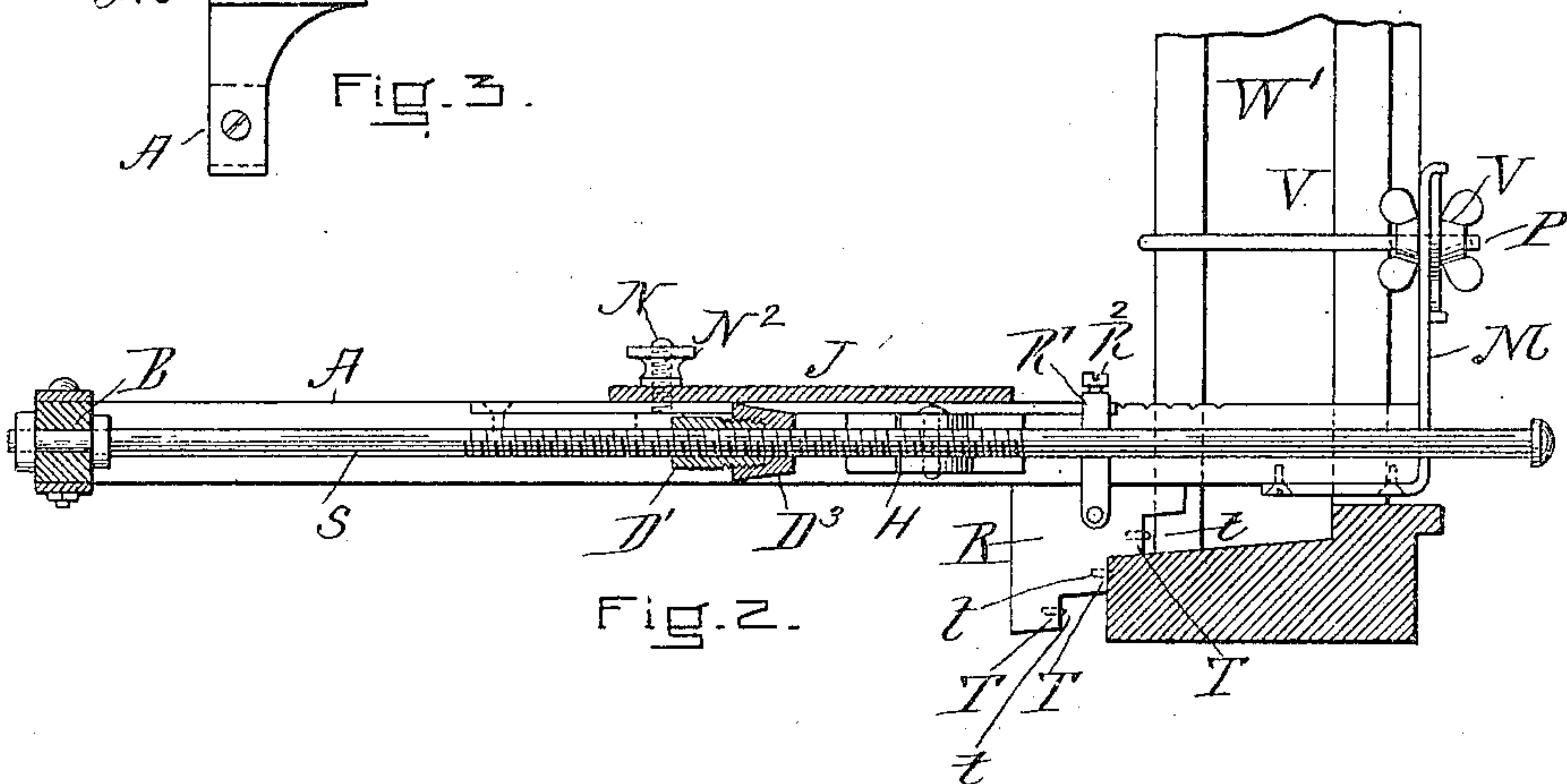


Fig. 2.

WITNESSES
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PORTABLE WINDOW-STAGE.

No. 807,606.

Specification of Letters Patent.

Patented Dec. 19, 1905.

Application filed September 25, 1905. Serial No. 280,086.

To all whom it may concern:

Be it known that I, WILLIAM H. DAVIDSON, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Portable Window-Stages, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to a device to be used by painters, window-repairers, window-washers, and the like; and it consists in a light strong staging that can be easily carried about and readily attached to any ordinary window-casing.

The object is to produce a strong portable outside stage or seat that can be connected and disconnected to a window-casing. This object I attain by the means shown in the accompanying drawings, in which—

Figure 1 is a view showing the stage and window-sill in plan and the side window-casing in horizontal section. Fig. 2 is a vertical section of the same. Fig. 3 is a detail.

The framework of my portable stage consists of two longitudinal bars A A', pivotally joined at their outer ends to the end piece B. Two toggle-arms C C' are united one to each of the longitudinal bars A A' by the pivot-brackets H and H'. The inner ends of the toggle-arms C C' are united by pivot-joints E E to the cross-head D. The cross-head D slides freely on the screw-shaft S, but may be coupled to the said shaft by means of a screw-thread D², cut upon its collar member D', which engages with a screw-thimble D³, as shown. This screw-thimble D³ has two internal threads cut in the interior of it, one adapted to engage with the screw D² upon the collar member D' of the cross-head D and the other adapted to engage with the screw-thread on the screw-shaft S. A hand-wheel S' is attached to the screw-shaft S for convenience in turning it. When it is desired to operate the toggle-arms C C' by the screw-shaft S, the thimble D³ is turned on the said shaft S, and thus screwed onto the collar D'. Now by turning the shaft S the cross-head D, being in connection with the said thimble D³, will be moved forth or back, accordingly as the screw-shaft is turned in one or the other direction. If the cross-head is moved in the direction indicated by the arrow, then the toggle-arms will force the longitudinal bars A A' outwardly, thus causing them to press

hard against the window-casings W W' and assist in holding the stage in place.

Under each of the longitudinal bars A and A', I place an adjustable bolster-piece R. (See Fig. 2.) This piece has steps T T T to adapt it to different styles and sizes of window-sills. It also has pointed projections t t to engage with the outside of the sill and assist in holding the parts in place. A strap or yoke R', with a binding-screw R² adjustable, holds the bolster to its respective bar at any desired place.

A plate M is attached to each of the bars A A' and is adapted to engage with the inner side of the casing, and thus prevent the stage from being drawn outward by any weight that may be resting upon it. To prevent the lifting up of the stage, and thus freeing the bolster R from the sill, I place screw-bolts P P, as shown. These bolts pass through the plates M to the outside of the casing, with which the bent part P' will engage, and thus give additional security to the stage. Screw-nuts V V secure the bolts P P to the plates M M'. For additional security I attach a sliding plate M' to the plate M. This plate M' has a slot M², (see Fig. 3,) through which the screw-bolt P passes and holds it firmly in the desired position.

A wide strong board J rests upon the frame of the stage and forms a platform to sit or to stand upon. It is attached by means of a screw-bolt N, which engages with the slot in the bar A. A clamping-screw nut N² serves to hold the board in any desired position.

I claim—

1. A window-stage, comprising a framework consisting of two longitudinal bars pivotally connected to a cross-bar at the outer ends, and having at their inner ends rigidly-attached plates adapted to engage with the inner faces of the window-casing; bolster-pieces attached to the under side of said longitudinal bars and adapted to rest upon the window-sill; a toggle-lever device, connected to the said longitudinal bars and having an operating-screw, by means of which the said bars may be forced outward and made to press against the window-casing; substantially as and for the purpose set forth.

2. A window-stage, comprising an adjustable frame; a platform attached thereto; toggle-arms attached to the said frame and adapted to expand the same; a cross-head connecting

the two arms of the toggle and having a screw-threaded collar centrally attached; a screw-shaft passing loosely through the said collar and having double-threaded thimble
5 adapted to engage with the said collar and the screw-shaft; and means for rotating said shaft, substantially as and for the purpose set forth.

3. A window-stage, comprising a frame-
10 work consisting of two longitudinal bars pivotally connected to a cross-bar at the outer ends, and having at their inner ends rigidly-attached plates adapted to engage with the inner faces of the window-casing; and bent
15 screw-bolts, P P, adapted to bind said at-

tached plates firmly to the casing; a toggle-lever device connected to the said longitudinal bars and having an operating-screw, by means of which the said bars may be forced outward and made to press against the window-casing; 20 substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 15th day of September, A. D. 1905.

WILLIAM H. DAVIDSON.

Witnesses:

FRANK G. PARKER,
WILLIAM EDSON.