

No. 749,242.

PATENTED JAN. 12, 1904.

J. A. TRAUT.
MITER BOX.

APPLICATION FILED APR. 24, 1903.

NO MODEL.

Fig. 1.

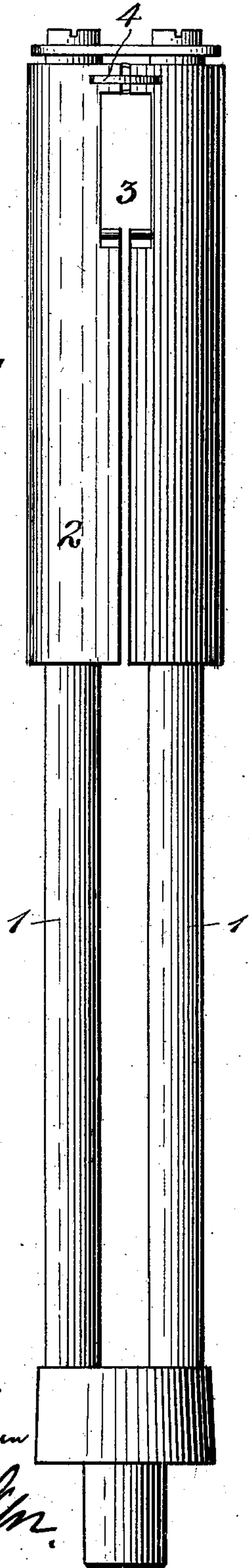


Fig. 2.

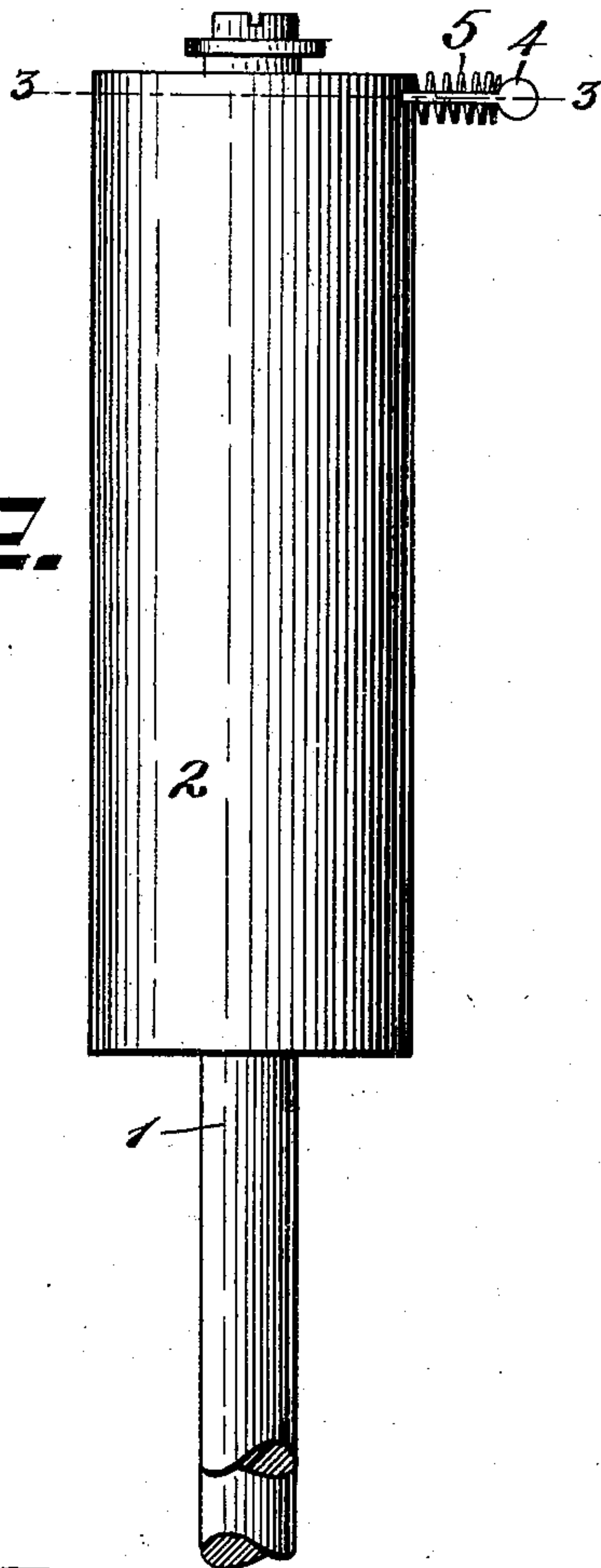
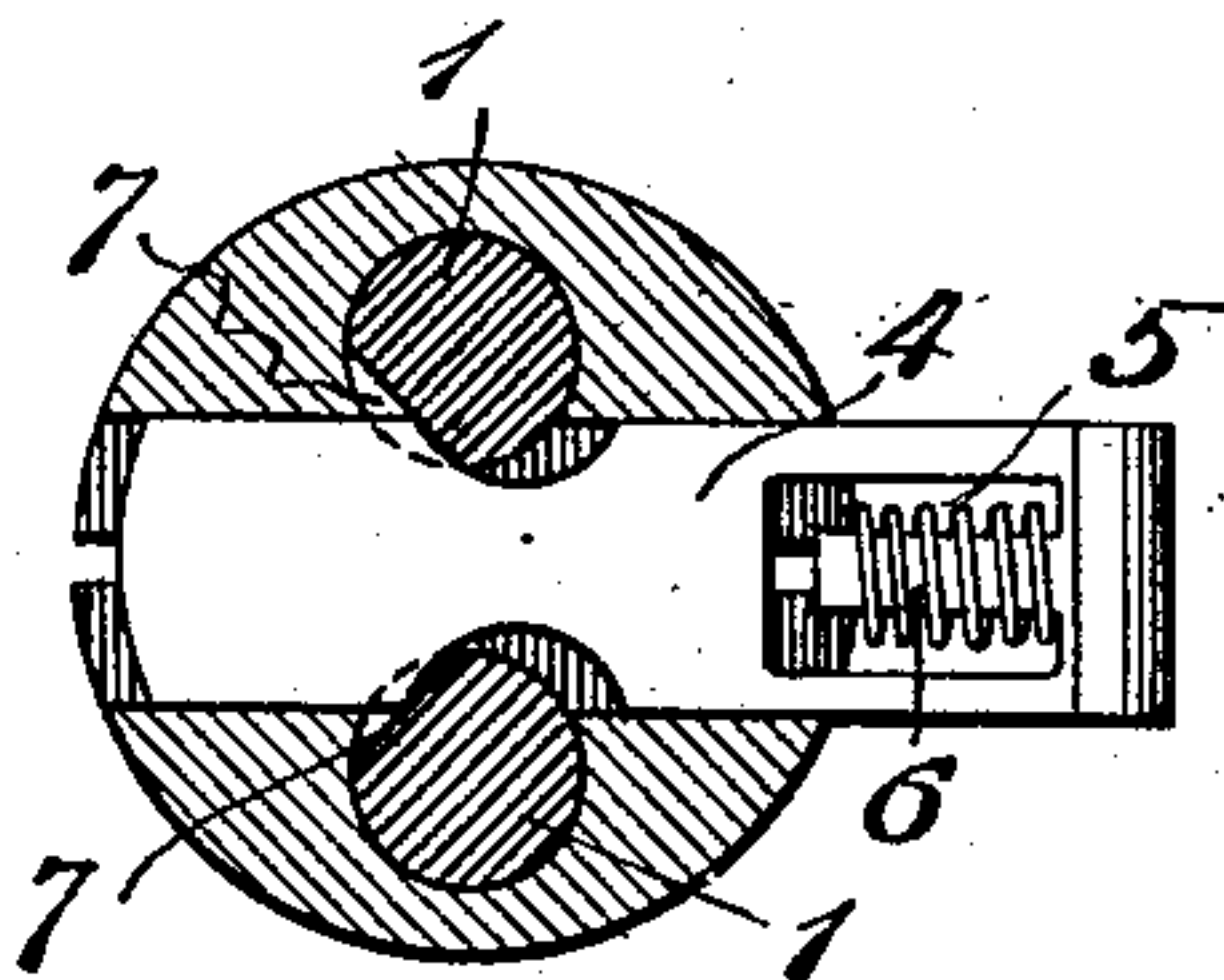


Fig. 3.



WITNESSES:

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JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO
THE STANLEY RULE & LEVEL COMPANY, OF NEW BRITAIN, CON-
NECTICUT, A CORPORATION OF CONNECTICUT.

MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 749,242, dated January 12, 1904.

Application filed April 24, 1903. Serial No. 154,054. (No model.)

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, a citizen of the United States, residing at New Britain, Hartford county, Connecticut, have invented certain new and useful Improvements in Miter-Boxes, of which the following is a full, clear, and exact description.

My invention relates to improvements in miter-boxes, and particularly to the saw guide and carrier portion thereof.

In miter-boxes it is customary to provide guides for the saw. Saw-carriers are also provided which move up and down with the saw on the guides. These carriers have usually been mounted loosely upon the guides, so that when not held up manually they drop to and rest on the bottom of the guide. In this position it is difficult to insert a saw. I have provided simple and effective mechanism whereby each carrier will remain stationary on its guide at whatever elevation it is left. In addition to this I have provided further means whereby the carrier will be held in its uppermost position with the saw in place and when the saw is idle. This permits the ready insertion of new work without removing the saw or without the necessity of manually holding the same.

In the accompanying drawings, Figure 1 is a front elevation of a saw guide and carrier constructed to embody my invention. Fig. 2 is a side elevation of the upper portion of the part shown in Fig. 1. Fig. 3 is a section on the line 3 3, Fig. 2.

I have shown in the drawings only such parts of a miter-box as are necessary to a full understanding of the construction and operation of my invention. A full illustration of a complete miter-box may, however, be seen in the accompanying application, Serial No. 154,051, filed April 24, 1903.

In the particular form shown herein the saw-guide comprises two posts 1 1, while the saw-carrier comprises a body 2, having a vertical slot to receive the saw-blade, which slot is enlarged at or near the upper end, as at 3, to receive the saw-back.

4 is a spring-controlled sliding latch mounted in a guideway extending transversely through the cylindrical carrier 2 and above the saw-slot.

5 is a spring which may be mounted on an extension 6 of the latch 4, so that one end will bear against the outer surface of the carrier 2 and the other end against the latch 4 in such a manner as to force said latch in one direction. The greatest width of the latch 4 exceeds the space between the guide-posts 1 1; but a notch is provided in each opposite edge of said latch, so that when the slide is in a certain position the notches will register with the posts and the carrier may be moved up and down freely. This certain position is an abnormal one, however, it being necessary to press against the end of the latch to shift it against the normal tendency of the spring 5. In Fig. 3, however, it will be seen the edges of the latch adjacent to the notches therein are in positive engagement in notches 7 7 in the guide-posts 1 1. These notches 7 7 are provided near the upper ends of the guides 1 1, so that when the carrier 2 is raised to its uppermost position it will be positively locked against descent. It is customary to provide in a miter-box a pair of saw guides and carriers, and each of them is preferably provided with this locking arrangement. The power of the spring 5 is preferably such as to cause enough frictional resistance between the latch 4 and the guides 1 1 to hold the carrier suspended at any desired elevation when the saw is removed. Hence the user may readily insert the saw without manually elevating the same.

What I claim is—

1. A saw guide and carrier for a miter-box comprising guide-posts, a carrier-frame mounted to slide up and down thereon, and means carried by said carrier-frame for frictionally holding said carrier at any elevation on said supporting-posts, and a notch in one of said supporting-posts adapted to receive said adjusting means and positively lock the same in its elevated position.

2. A saw guide and carrier for a miter-box

comprising a pair of guide-posts spaced apart
and in parallel arrangement, a reciprocating
saw-carrier frame mounted on said guide-
posts, a slide arranged transversely thereof
5 the greatest width of said slide being in ex-
cess of the space between said guide-posts,
notches in said slide arranged to register with
said guide-posts when in one position to ad-
mit of the carrier being raised and lowered,
10 a spring exerting constant pressure against
said slide to cause a frictional engagement be-
tween said slide and said posts whereby the
carrier is frictionally held at any desired ele-
vation on said posts.
15 3. A saw guide and carrier for a miter-box
comprising a pair of guide-posts spaced apart
and in parallel arrangement, a reciprocating
saw-carrier frame mounted on said guide-
posts, a slide arranged transversely thereof
20 the greatest width of said slide being in ex-

cess of the space between said guide-posts,
notches in said slide arranged to register with
said guide-posts when in one position to ad-
mit of the carrier being raised and lowered,
a spring exerting constant pressure against 25
said slide to cause a frictional engagement be-
tween said slide and said posts whereby the
carrier is frictionally held at any desired ele-
vation on said posts, and a notch in one of
said guide-posts near the upper end thereof 30
of a sufficient size to receive a portion of the
slide and positively lock said carrier in its ele-
vated position.

Signed at New Britain, Connecticut, this
3d day of April, 1903.

JUSTUS A. TRAUT.

Witnesses:

ROBERT N. PECK,
E. G. HOFFMAN.