No. 769,699. PATENTED SEPT. 13, 1904.

W. H. KLEIN.

FURNITURE LEG ATTACHMENT.

APPLICATION FILED SEPT. 25, 1902.

NO MODEL.

Fig. 1.

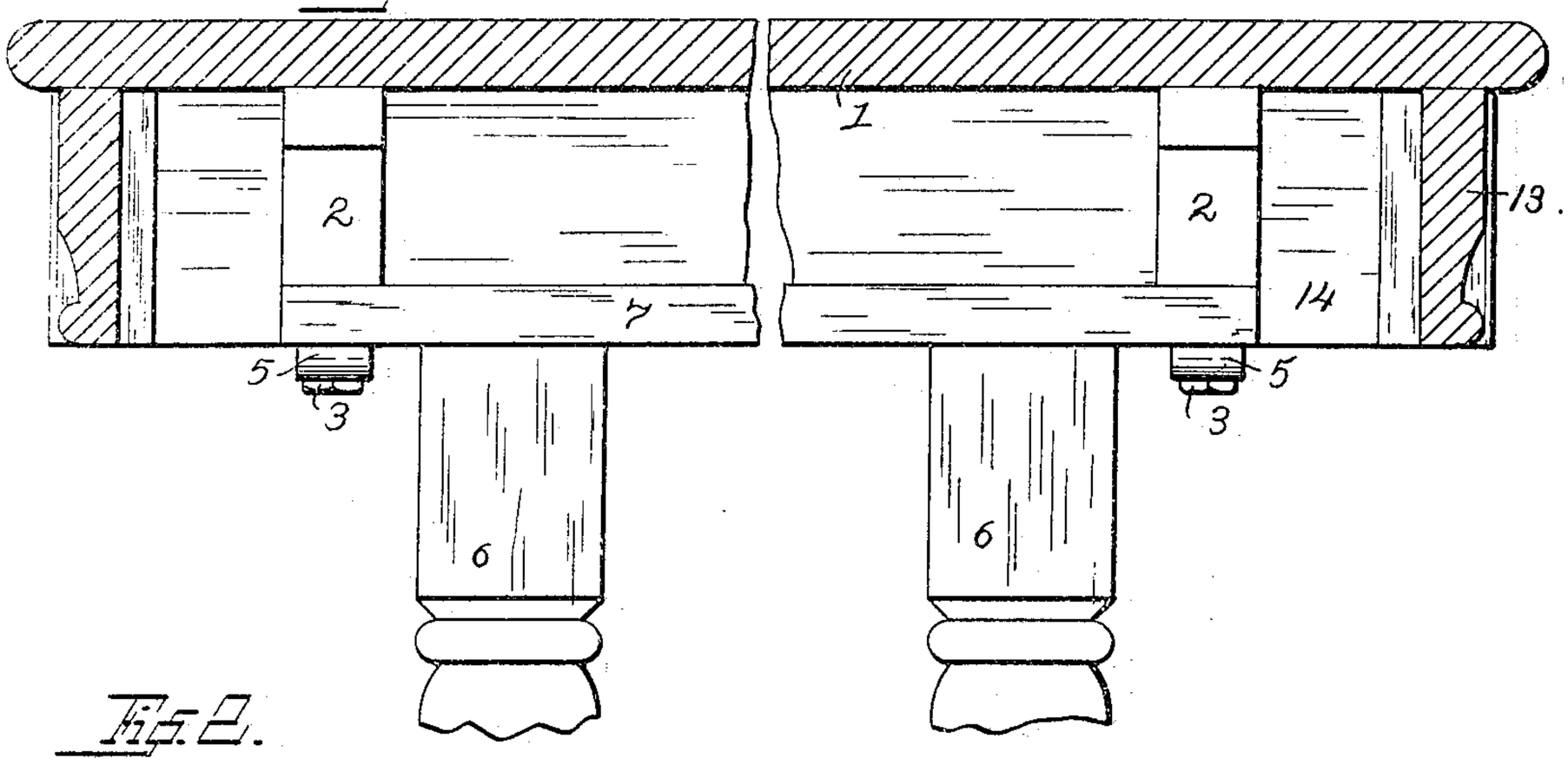


Fig. 2.

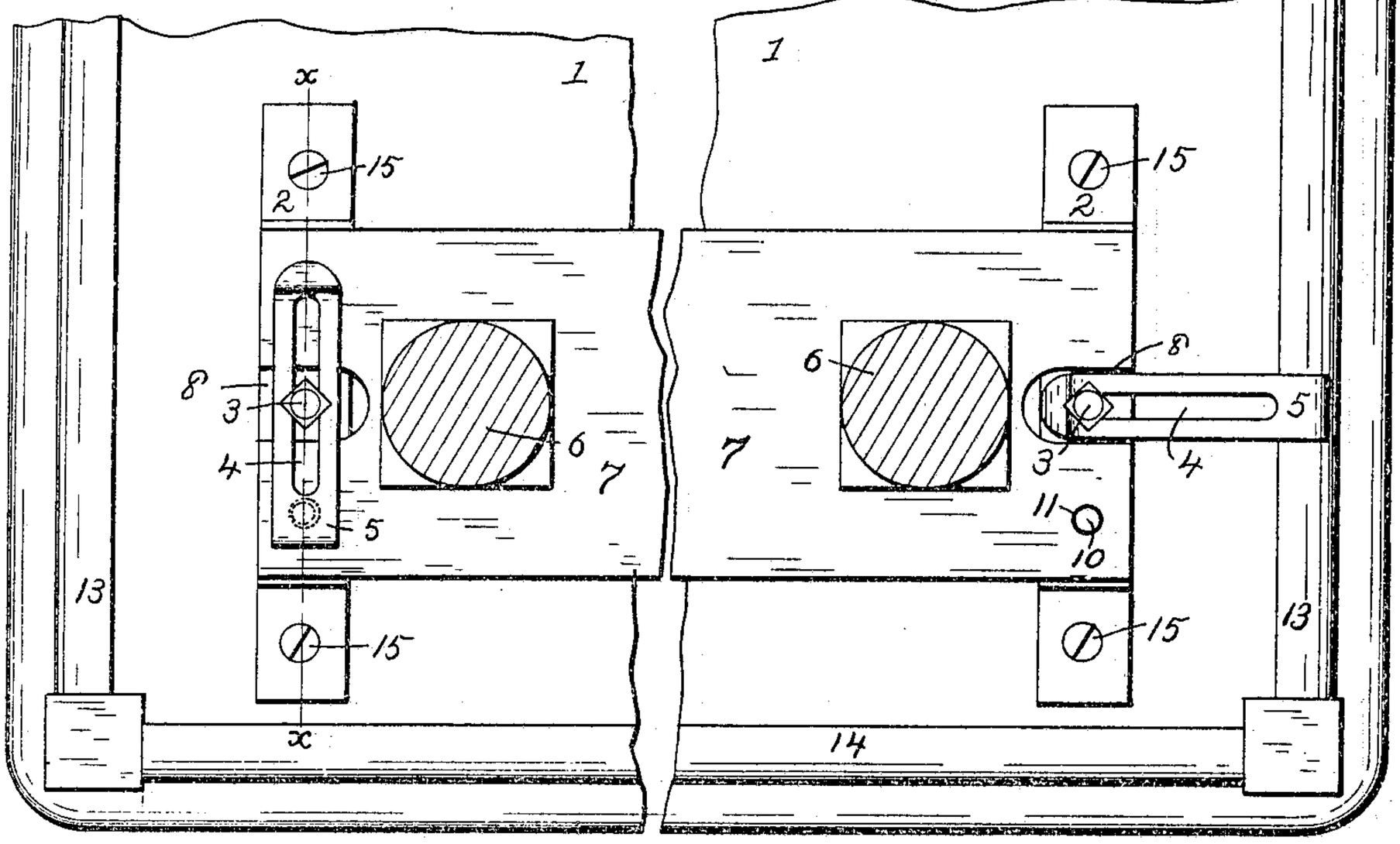
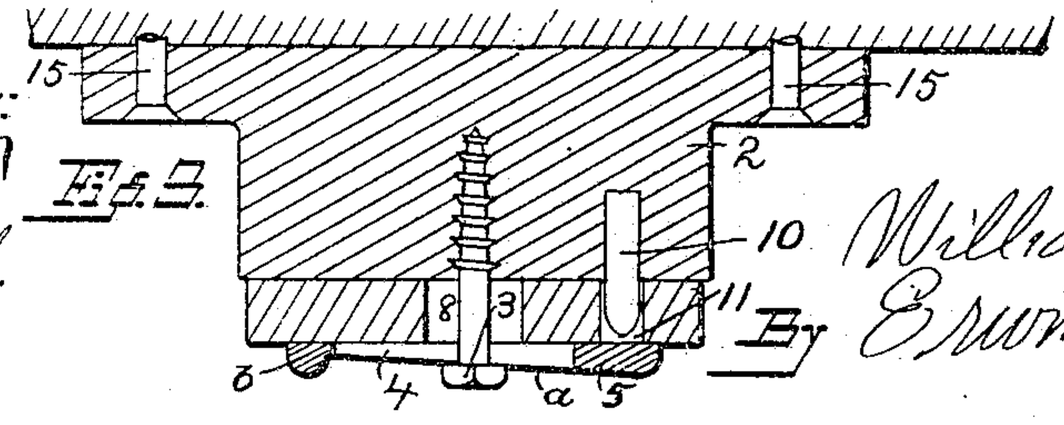


Fig. 3.



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No. 769,699. Patented September 13, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM H. KLEIN, OF MILWAUKEE, WISCONSIN.

FURNITURE-LEG ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 769,699, dated September 13, 1904.

Application filed September 25, 1902. Serial No. 124,749. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KLEIN, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Furniture-Leg Attachments, of which the following is a specification.

My invention relates to improvements in attachments for furniture-legs, the same being herein described specifically with reference to tables, but being also applicable to other articles of furniture.

Heretofore tables have been provided with detachable legs in which each leg is separately secured to the table by means of a bolt or key; but where such devices are used it is difficult to secure the legs in position, especially where the legs are of set form adapted to be secured to the table in one position only. In such cases the tightening of the bolt or driving in of the key frequently disarranges the leg slightly and renders the table unsightly. Another difficulty experienced is the fact that each of the legs must be carefully bound in position and secured in a crate before shipping in order to keep it from rubbing and marring, and the screw keys or bolts must be separately packed and secured in the crate in order that they may not become lost.

The object of this invention is to provide means whereby the legs may be secured in pairs to a supporting-plate, which plate can be secured to the table-top without loss of time, the plate being to fit the top in one position only and the adjustment of the legs being effected at the factory.

My invention also contemplates dispensing with all small detached pieces, the securing device being permanently connected with the table-top.

In the following description reference is had to the accompanying drawings, in which—

Figure 1 is a sectional view of a table embodying my invention. Fig. 2 is a detail view of the under side of one end of the table equipped with my invention, and Fig. 3 is a sectional view drawn on line *x x* of Fig. 2.

Like parts are identified by the same reference characters throughout the several views.

The under surface of the table-top 1 is provided with blocks 2 near each corner. A headed bolt or pin 3, preferably a lag-bolt, is permanently secured to each of these blocks. The bolt 3 passes through a slot 4 in a key 5, the slot being of less diameter than the head of the bolt, so that the key is also permanently connected with the table-top. The legs 6 at each end of the table are permanently secured to a plate 7, and the latter is provided with open-ended slots 8 at each end, through which the head of the bolt 3 and the end of the key 5 are adapted to pass when the key is adjusted in the position in which it is shown at the right in Fig. 2. When the plate 5 is adjusted to the blocks 2 with the bolts and keys in registry with the slots at the respective ends, the keys are raised into contact with the bolt-heads and turned transversely of the slot, when by a light blow with a hammer or other tool the thicker portion of the key may be driven underneath the bolt-head to bind the plate rigidly to the blocks 2. It will be observed that the key is wedge shape, its outer surface being inclined, as indicated at *a* in Fig. 3. When it is desired to remove the legs, a blow at the tapered end *b* of the key will loosen it from underneath the bolt-head, when it may be turned to the position of release, as shown at the right in Fig. 2, and when this is done at both ends of the plate 7 the latter, with the attached legs, may be removed.

In order to prevent the table from skewing when subjected to pressure at the corners and also to facilitate the adjustment of the plate to the blocks 2, I have provided the blocks with pins 10, which when the plate is in its proper position register with apertures 11 therein, in which apertures the pins are adapted to fit.

It will be understood that any desired number of legs may be secured to a single plate. Preferably, however, one plate is provided for each end of the table and two legs secured thereto, one near each end of each plate, whereby the legs are supported in a position near the corners of the table. Where a center leg is used with an extension-table, a separate plate is provided therefor, and said parts are secured to the slides in like manner.

In shipping the tables the plates at each end and the center plate are released and turned on edge to fold the legs against the under side of the table-top that the entire table may be crated for shipment.

It will be observed that the blocks 2 are of such dimensions that the keys 5 occupy a position below the side and end rails 13 and 14, respectively. This is desirable in order that the side and end rails will not interfere with the manipulation of the keys. The blocks may be secured to the table-top in any convenient manner. In the drawings I have shown blocks which are notched at each end, the projecting portion *d* being secured to the table-top by means of screws 15.

While I have described my invention as applicable to a table, it will be obvious that the same may be applied to any leg-supported article. It will also be understood that, if desired, the blocks 2 may be dispensed with and headed projections, such as the bolts 3, secured directly to the supporting-frame or top portion of a table or other article.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with an article of furniture; of a series of slotted keys; a set of projections connected with the supported article, each passing through a slot in corresponding key, and having a head of greater diameter than the slot; a set of plates, each having slots adapted to permit projections and keys to pass therethrough, when the keys are in one position of adjustment, said keys being adapted to be adjusted across the slots in the plates, and to serve as wedges between the plates and the heads of the projections.

2. The combination with an article of furniture; of a series of slotted wedge-shaped keys connected therewith by headed projections passing through the slots in the keys; a series of legs, each secured to a slotted connecting-plate; each slot in the connecting-plate being adapted to register with one of said projections; and of sufficient dimensions to permit the projection and key to pass through it when the key is adjusted longitudinally thereof, said keys being adapted to be adjusted transversely of the slots between the heads of the projections and the plates.

3. The combination with an article of furniture; of a series of slotted wedge-shaped keys connected therewith by headed projections passing through the slots in the keys; a series of legs, each secured to a slotted connecting-plate, each slot in the connecting-plate being adapted to register with one of said projections, and of sufficient dimensions to permit the projection and key to pass through it when the key is adjusted longitudinally thereof, said keys being adapted to be adjusted transversely of the slots between the heads of the projections and the plates; together with a series of pins connected with the supported article, and adapted to enter suitable apertures in said plate.

4. The combination with a leg-supported article, such as a table-top; of a set of blocks connected with the under surface thereof; a set of headed projections connected with the blocks respectively; a leg-supported plate permanently secured to the leg and having slots registering with the projections; and wedge-shaped keys permanently connected respectively with the projections, and adapted to pass with them through the slots, said keys being adapted to be adjusted transversely of the slots, and interposed between the plates and the heads of the projections.

In testimony whereof I affix my signature in the presence of two witnesses.

WILLIAM H. KLEIN.

Witnesses:
JAS. B. ERWIN,
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