

No. 760,116.

PATENTED MAY 17, 1904.

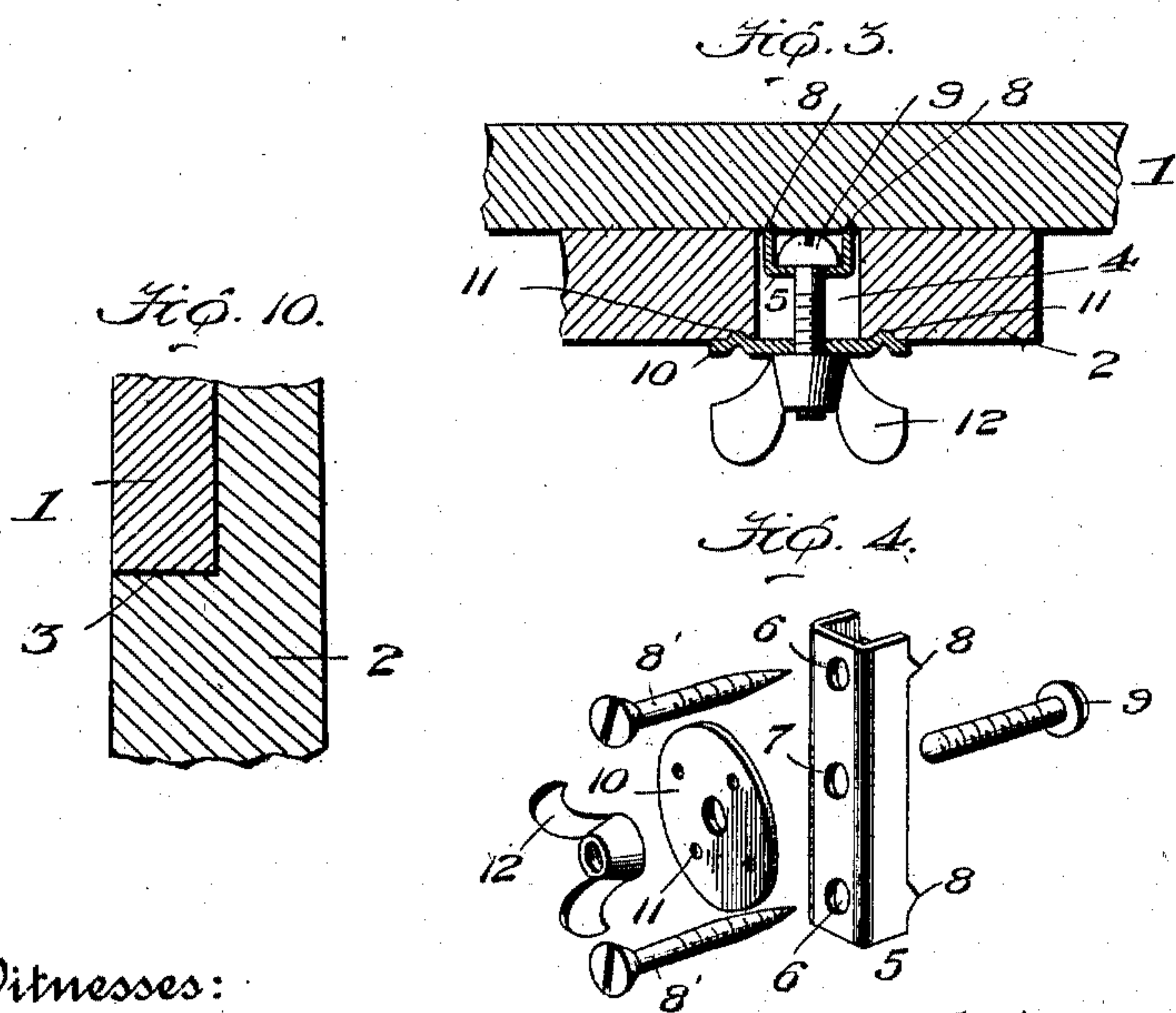
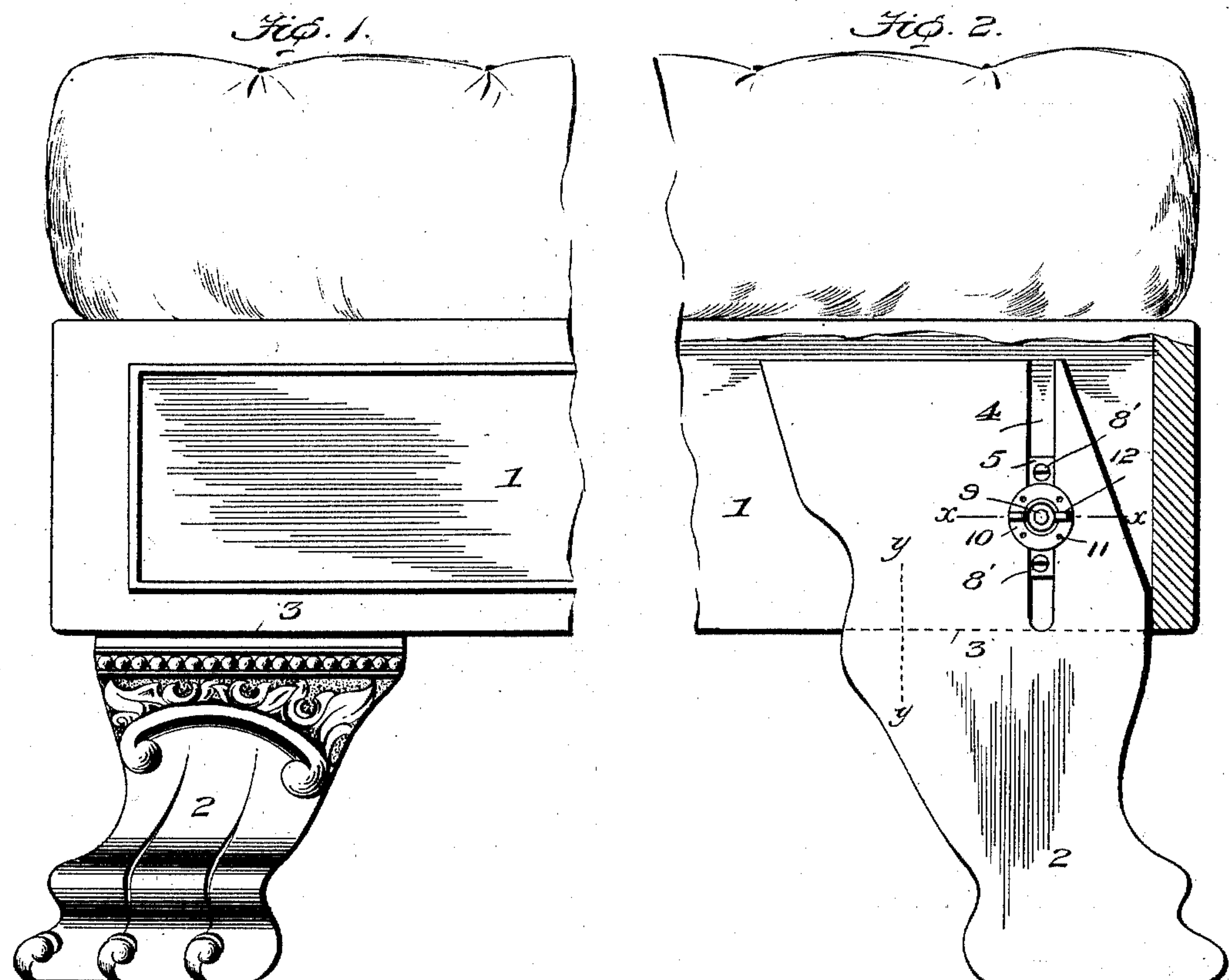
A. A. HAUSSKE.

FASTENING DEVICE FOR DETACHABLE PARTS OF FURNITURE.

APPLICATION FILED DEC. 5, 1901.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:

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NO MODEL.

2 SHEETS—SHEET 2.

Fig. 5.

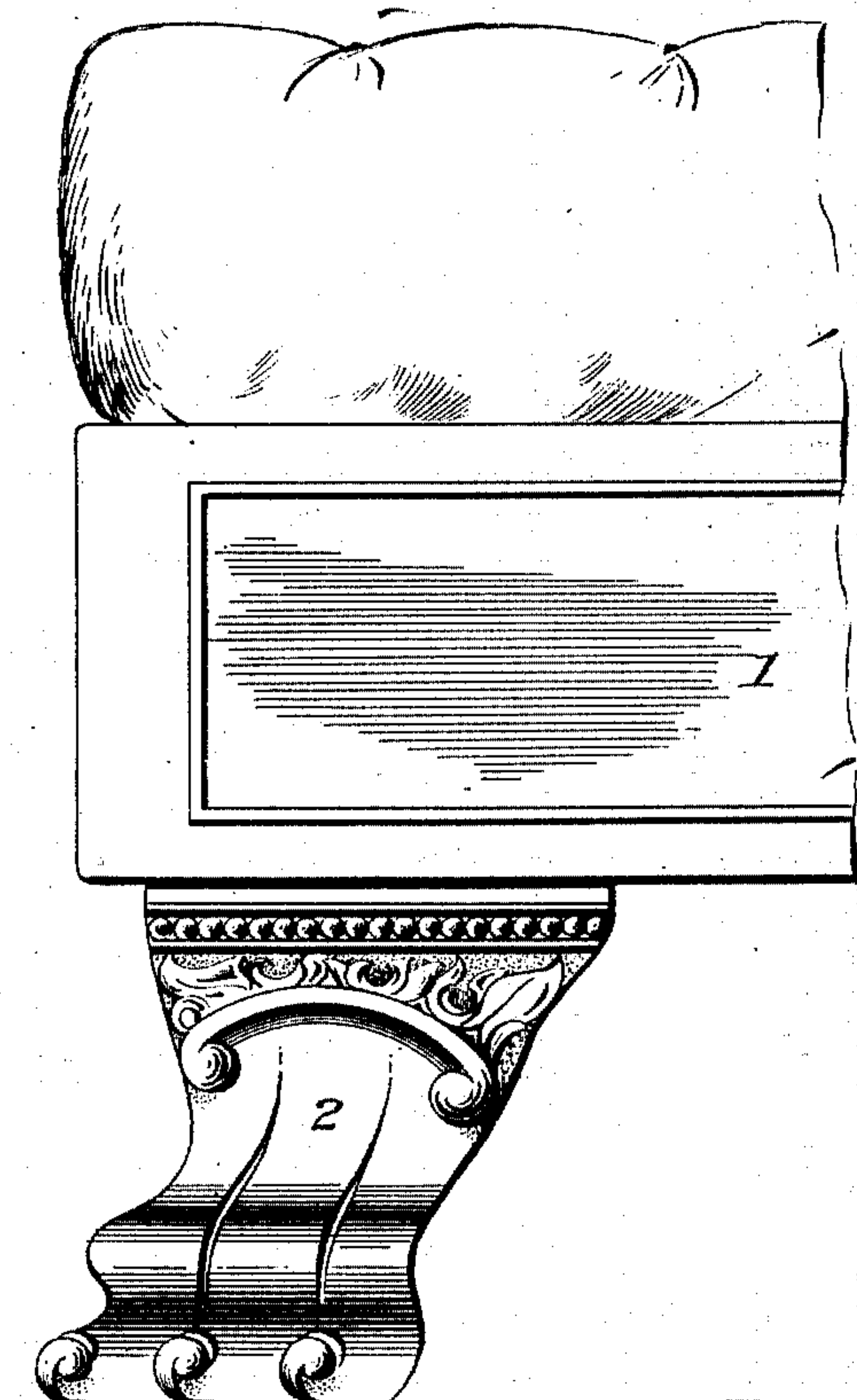


Fig. 6.

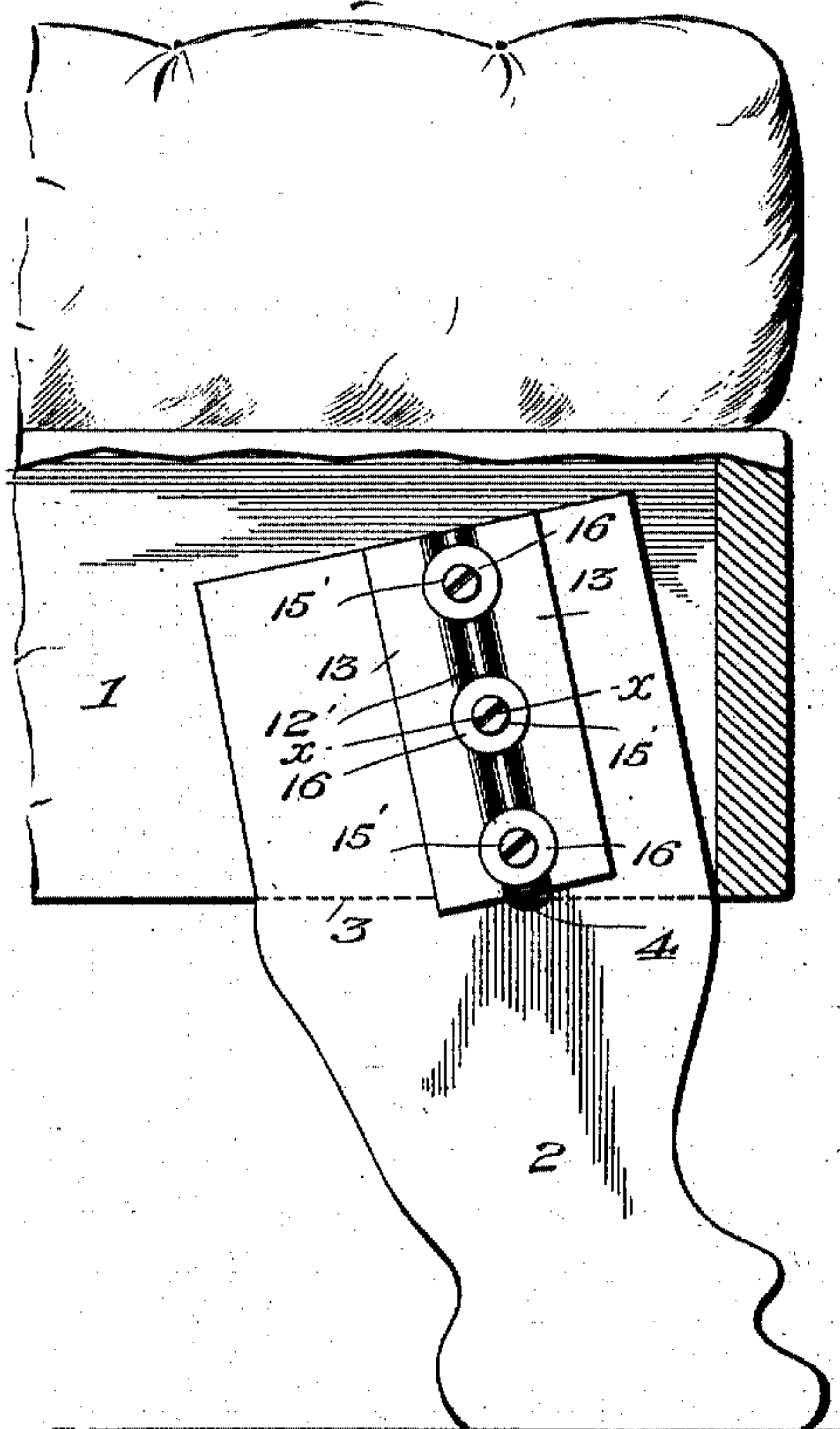


Fig. 7.

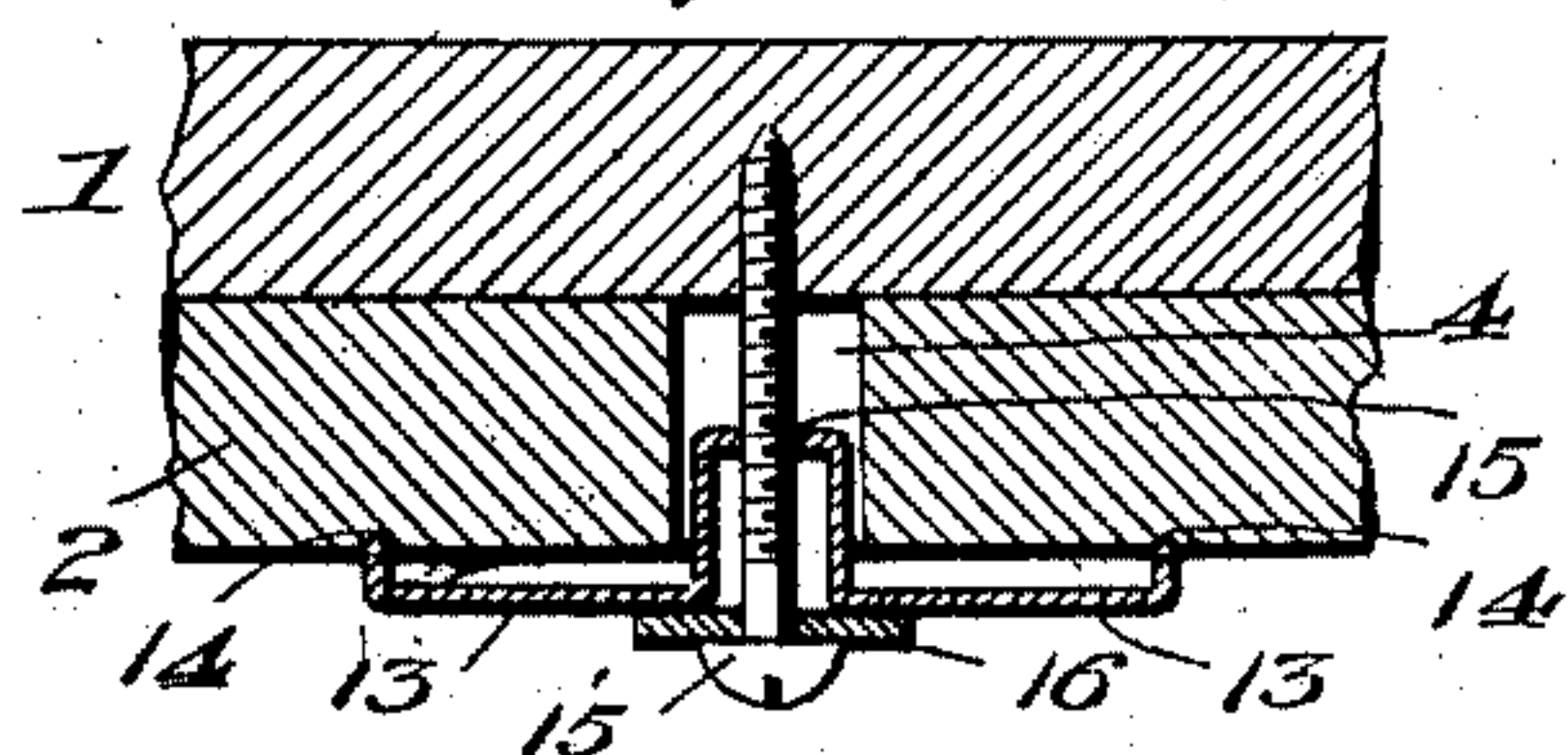


Fig. 9.

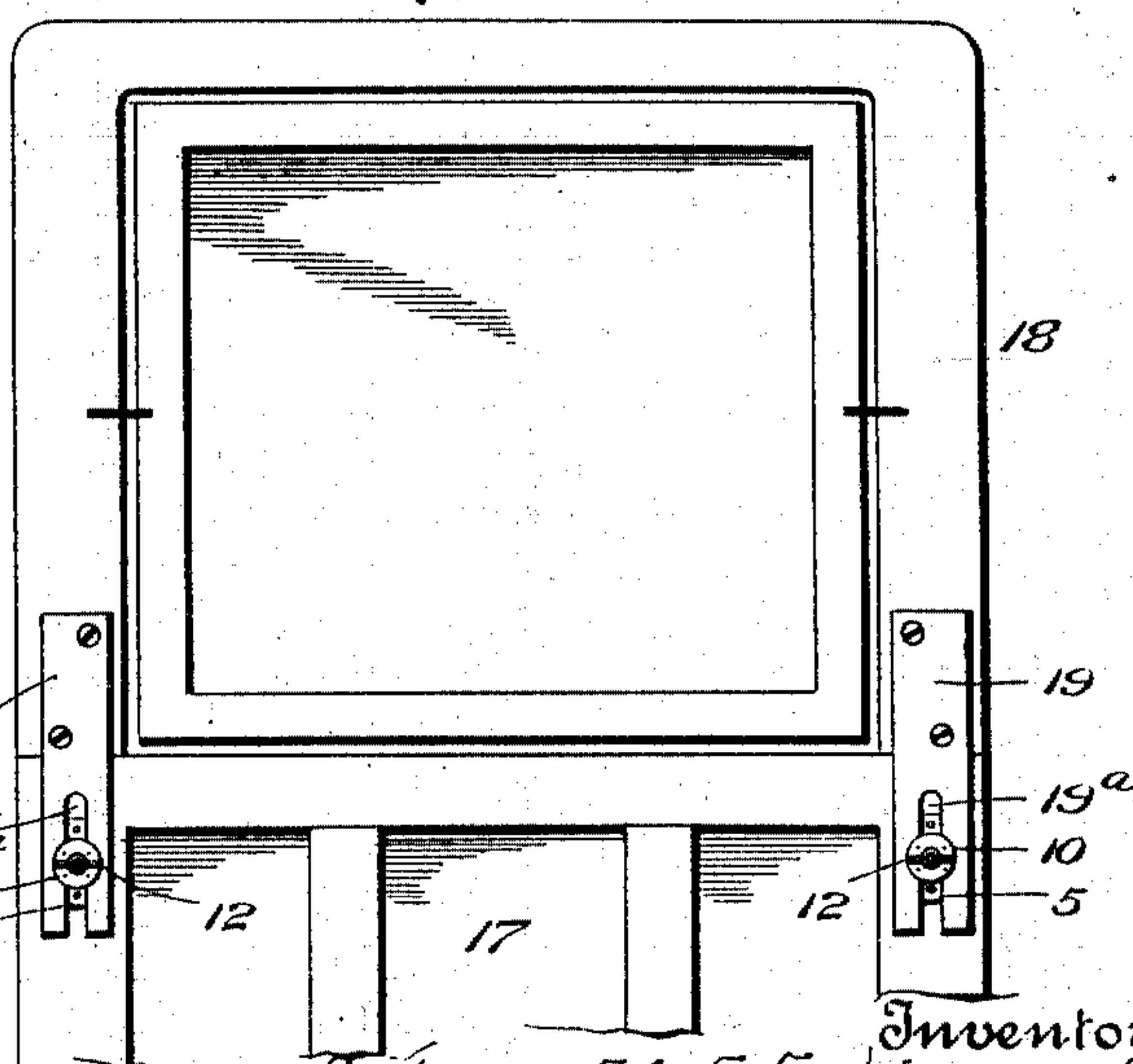
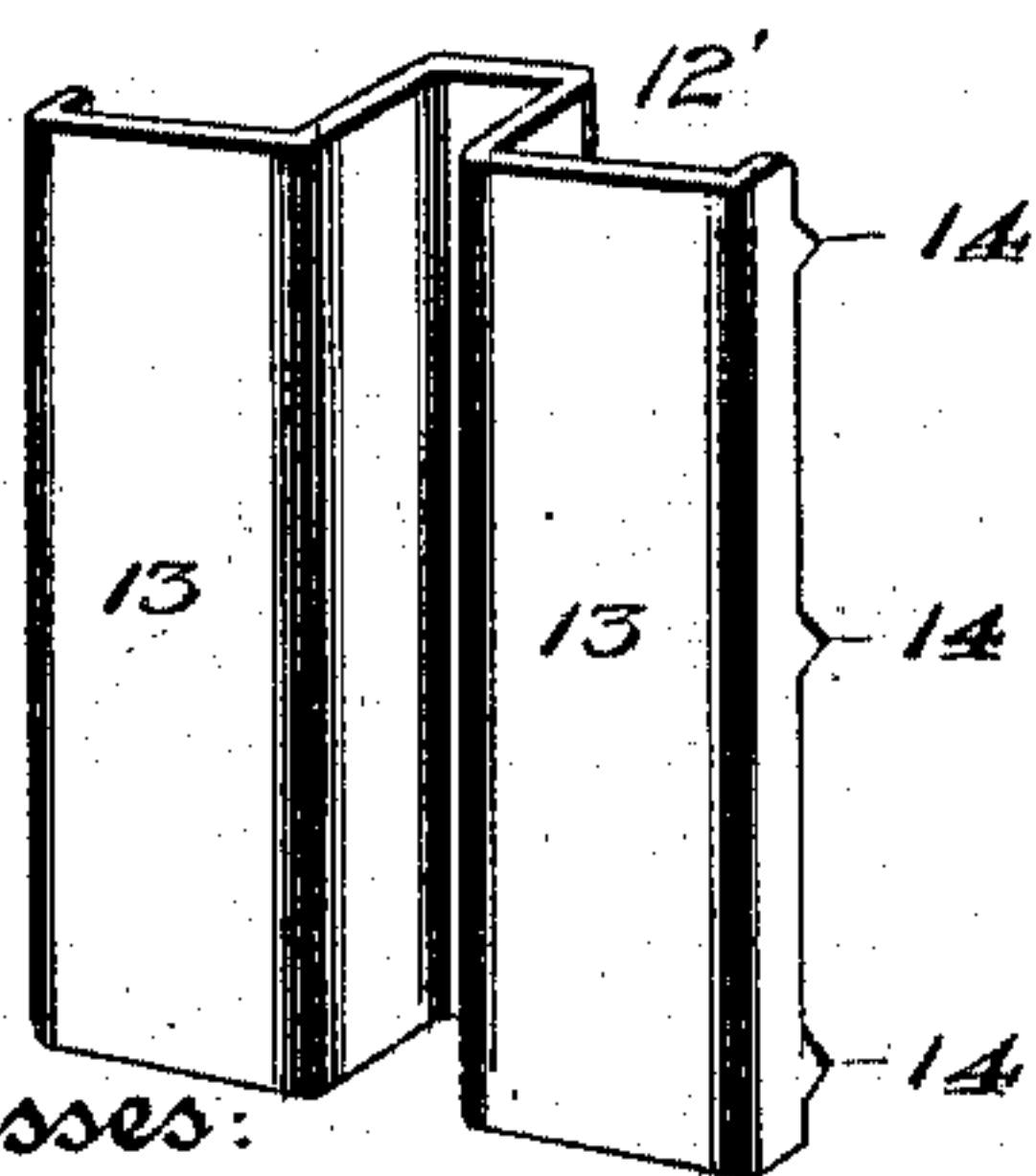


Fig. 8.



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UNITED STATES PATENT OFFICE.

ANTON ADOLPH HAUSSKE, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE
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FASTENING DEVICE FOR DETACHABLE PARTS OF FURNITURE.

SPECIFICATION forming part of Letters Patent No. 760,116, dated May 17, 1904.

Application filed December 5, 1901. Serial No. 84,804. (No model.)

To all whom it may concern:

Be it known that I, ANTON ADOLPH HAUSSKE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Fastening Devices for Detachable Parts of Furniture, of which the following is a specification.

This invention relates to improvements in detachable legs for furniture, more especially for couches, lounges, &c.

The principal objects of the invention are to produce a simple, economic, and efficient means for detaching and attaching the legs of various articles of furniture, principally those above enumerated, whereby such articles may be compactly arranged for shipment or storage, thereby in the first instance saving freight and in the second storage.

A still further and prime object in view is to so construct the leg and its attaching device as to enable the former to be attached without the use of tools, thus greatly facilitating the operation and enabling the ordinary house-keeper to replace broken legs without the necessity of calling in an experienced workman for the purpose.

Other objects of the invention will hereinafter appear in the following description, and the novel features thereof will be more particularly pointed out in the appended claims.

Referring to the drawings, Figure 1 is an elevation of a portion of a sofa-frame or couch-frame provided with a detachable leg secured in position in accordance with my invention. Fig. 2 is a reverse view of the same. Fig. 3 is a horizontal section through the fastening device, the section being taken on the line *xx* of Fig. 2. Fig. 4 represents the details composing the fastening device, the parts being separated. Figs. 5, 6, and 7 are views corresponding to Figs. 1, 2, and 3 and illustrating another form of fastening device. Fig. 8 is a detail of the same. Fig. 9 illustrates the manner in which the attaching devices illustrated in Figs. 1, 2, and 3 may be utilized for securing mirrors to bureaus, &c. Fig. 10 is a section on line *yy* of Fig. 2.

Similar numerals of reference indicate similar parts in all the figures of the drawings. 50

As a ready means of illustrating the applicability of my invention I have elected to show the same as applied to the frame of a sofa, lounge, or couch, though, as will hereinafter be apparent, the invention may be applied to various uses in the furniture art. 55

1 designates the usual longitudinal or side rail of a lounge, couch, or sofa frame, and 2 a detachable leg thereof. The latter at its front or outer side is provided with a horizontal shoulder 3 and from this point to its upper end is formed with a vertical slot 4. As is obvious, the lower edge of the side rail rests upon the horizontal shoulder 3, whereby the rigidity of the leg after fastening is greatly added to. 60 65

The fastening device proper consists of a metal substantially U-shaped box or tenon 5, which is provided between its two terminal flanges and near its ends with screw-holes 6 and between the latter with a bolt-hole 7. The edges of the flanges may be provided with a series of engaging teeth 8 or left perfectly plain, as preferred. It will be understood that the slot 4 in the leg is very slightly larger than the width of the box or tenon 5, so that the latter can just be received by the former, and when so assembled a snug fit results. 70 75

At a point upon the inner surface of a side rail 1 where the slot 4 of the leg will register the box or tenon is applied, a couple of screws 8 being passed through the two screw-holes thereof and into the said side rail. If the box or tenon is provided at the edges of its flanges with teeth, as mentioned, the same are thereby forced into the fiber of the wood composing said side rail, and thus aid in the retention of the box or tenon against lateral displacement. 80 85

Through the bolt-hole 7 of the box or tenon projects the shank of an ordinary bolt 9, the head of the latter being contained within the box or tenon, and the shank therefore projecting through the slot 4 of the leg when the latter is in its operative position. 90 95

The bolt at its outer threaded end receives

a washer 10, the same overlying the surface of the leg, and said washer may have its inner side provided with slight projections 11, that may be caused to engage with the fiber of the wood of which said leg is composed.

To the end of the bolt is applied a wing-nut 12, that may be applied or removed by hand and without the use of tools, the aforesaid nut bearing against the outer surface of the washer and serving to engage its projections 11 with the fiber of the wood of the leg, as before mentioned.

The box or tenon being angular and fitting the slot will, in connection with the shoulder on the leg in which the side rail 1 rests, prevent any displacement of the leg when once secured in position by means of the bolt and wing-nut. At the same time it will be obvious that any person no matter how unskilled can readily apply or detach the leg, and this, too, with simply the bare hands. Couches, lounges, sofas, tables, and, in fact, any other piece of furniture employing the invention can be shipped and stored cheaper, and yet at the same time cause no inconvenience. In practice when the article of furniture is shipped from a factory the metal fastening device is in position, so that when it arrives at the dealer's and is to be placed on the floor for sale it is merely necessary to slip the leg into position and tighten the wing-nut.

In Figs. 5, 6, 7, and 8 I have illustrated another form of attaching device that may also be used with advantage, but is not so convenient as the one described in that it necessitates the use of a screw-driver for its application. However, I deem it best to describe it in detail.

In Figs. 5, 6, and 7, 1 designates the side rail, and 2 the leg, the latter recessed along its front side to form the shoulder 3 and slotted vertically, as at 4. In this instance the box or tenon 12 (of a rectangular shape in cross-section or substantially U-shaped) is provided with lateral flanges 13, the edges of which are forwardly bent and may be serrated, as at 14. The transverse portion of the box or tenon is provided with a series of screw-holes 15. The leg is applied to the side rail of the frame in the same manner as before, after which the box or tenon is placed against the outer face of the leg and fitting the slot thereof. Screws 15, carrying washers 16, are then inserted into the box and through the screw-holes, after which the screws are tightened by the use of an ordinary screw-driver, which serves to bring the washers firmly to their seats upon the box or tenon and the serrated edges of the latter into engagement with the wood of the leg. While this mode of fastening is efficient, yet for the reason that it involves the use of a screw-driver it is not preferable to the form first described.

In Fig. 9, 17 designates a bureau, and 18 the mirror-frame of the same. The usual cleats are designated as 19, and they are slotted, as at 19^a, in the same manner as the legs of the lounge heretofore described. In this connection I have illustrated my preferred form of attaching device, the operation of connecting or disconnecting these parts being the same. This permits of the mirrors and bureaus being shipped and stored separately with the same good results.

For the purpose of economy and convenience it is preferred to form the box or tenon of sheet-steel, though of course it will be understood that the same may be cast or otherwise formed.

Having described my invention, what I claim is—

1. A fastening device for separable parts of furniture and the like, the same comprising an angular metal elongated tenon secured to one of said parts and projecting into a slot formed in a companion part, a bolt projecting outwardly from the tenon through and beyond the said slot, a spanning medium for the slot and through which the bolt passes, and a nut on the outer end of the bolt.

2. A fastening device for separable parts of furniture and the like, the same comprising an angular metal elongated tenon secured to one of said parts and projecting into a slot formed in a companion part, a bolt projecting outwardly from the tenon through and beyond the said slot, a washer mounted over the bolt and spanning the slot, and a nut on the bolt and bearing on the washer.

3. A fastening device for detachable parts of furniture and the like, one of said parts being slotted, said device comprising an angular box-like tenon formed of sheet metal and provided with screw-holes, and an intermediate bolt-hole, screws passed through the screw-holes and into the unslotted member, and an oppositely-disposed bolt provided with a winged nut having its head engaging the tenon and its shank projecting through the said slot, and a washer encircling the bolt between the nut and slotted member and spanning the slot thereof.

4. A fastening device for detachable parts of furniture and the like, one of said parts being slotted, said device comprising an angular box-like tenon formed of sheet metal having its edges provided with teeth and provided with screw-holes, and an intermediate bolt-hole, screws passed through the screw-holes and into the unslotted member, and an oppositely-disposed bolt provided with a winged nut having its head engaging the tenon and its shank projecting through the said slot, and a washer encircling the bolt between the nut and slotted member and spanning the slot thereof.

5. A fastening device for securing together separable parts of furniture and the like, one of which parts is provided with a slot, said

device consisting of an angular tenon fitting the said slot of said part and secured to one of said parts, a spanning element fitting over the slot, for securing the said tenon to the other
5 of said parts, and means for detachably securing said tenon to the spanning element.

6. A fastening device for securing together separable parts of furniture and the like, one of which parts is provided with a slot, said
10 fastening device consisting of an angular tenon

fitting the said slot and secured to one of said parts, a spanning element fitting over the slot, and means for securing the said tenon to the spanning element.

In testimony whereof I affix my signature in 15 presence of two witnesses.

ANTON ADOLPH HAUSSKE.

Witnesses:

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F. J. SENG.