R. M. KEATING.

TABLE OR CHAIR FOOT.

APPLICATION FILED APR. 4, 1918.

1,289,473. Patented Dec. 31, 1918.

Fig. 1

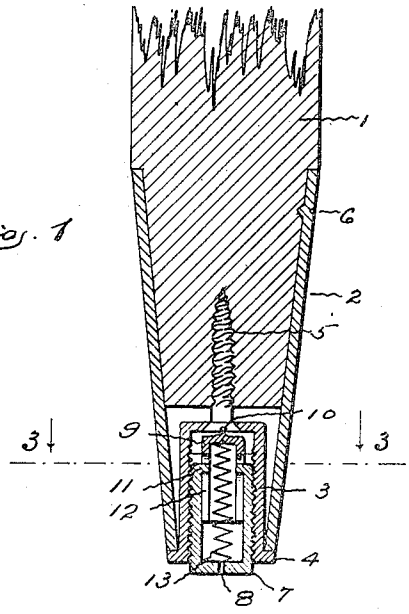


Fig. 2

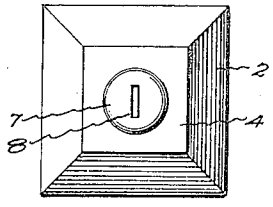


Fig. 3

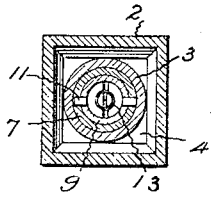
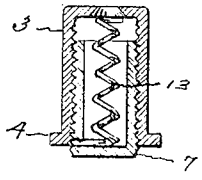


Fig. 4



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TABLE OR CHAIR FOOT.

1,289,473. Specification of Letters Patent. Patented Dec. 31, 1918.

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To all whom it may concern:

Be it known that I, ROBERT M. KEATING, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Table or Chair Feet, of which the following is a specification.

This invention relates to that class of feet for table and chair legs which are adjustable so that the tables and chairs to which the feet are applied will stand firmly on all of their legs regardless of unevenness of a floor.

The object of the invention is to provide very simple, cheap, strong and ornamental feet that can be easily attached to the lower ends of table and chair legs and which are so constructed that they may be readily adjusted to insure the firm support of the tables and chairs to which they are applied.

The essential features of the structure which embodies the invention are a light yet strong sleeve which provides an ornamental trim and a socket for receiving the lower end of the table or chair leg, a downwardly opening thimble fixed in the lower end of the sleeve, and an upwardly opening plug adjustably fitted into the thimble.

Figure 1 of the accompanying drawings shows a central vertical section of the lower end of a table or chair leg provided with an adjustable foot which embodies this invention. Fig. 2 is a view looking up at the bottom of the foot. Fig. 3 shows a section on dotted line 3—3 on Fig. 1. Fig. 4 shows a section of a modified construction of a portion of the foot.

The wooden table or chair leg 1 may be round or angular in cross section—that illustrated being square. The attaching sleeve 2 is formed of a tapering tube of relatively thin metal, either round or angular depending upon the cross sectional shape of the leg to which it is to be applied. Fixed in the lower end of the square sleeve shown is a downwardly opening metallic thimble 3. The thimble is circular in cross section and is drawn from comparatively thin metal with a flange 4 at its bottom end. This flange is the same size and shape as the lower end of the sleeve to which it is fastened by brazing. The sleeve and thimble may be held in place in the lower end of the leg by a bolt or screw 5 which is thrust through a perforation in the upper closed end of the thimble and is turned into the lower end of the leg that is fitted into the sleeve above the thimble, or the screw may be omitted and the sleeve fastened to the leg by indenting it and driving small sections of the metal into the wood of the leg, as shown at 6.

The interior of the thimble is threaded and turned into this is an exteriorly threaded tubular plug 7 with a closed lower end which is provided with a slot 8 for the insertion of a screw driver blade or other implement by means of which the plug may be screwed more or less into or out of the thimble.

A plunger 9 with an upwardly projecting teat 10 may be located in the plug. Lugs 11 are shown as bent in from the upper edge of the plug into slots 12 in the sides of the plunger so that the plug cannot turn without turning the plunger but the plunger can move longitudinally independently of the plug. A spring 13 is arranged between the plug and plunger so as to thrust the latter upwardly and cause the teat to project with a yielding pressure into the slot of the screw. This prevents the plug from turning in the thimble and screwing in and out when the foot is in use, but does not prevent the plug from being turned for adjustment when desired.

If desired the plunger may be omitted from the interior of the plug, as shown in Fig. 4. In this case one end of the spring will be attached to the plug and the other end will engage with the screw slot to retain the plug from turning.

The parts of this foot may all be drawn from relatively thin metal and if the plug is threaded it is turned into the thimble to such a distance that all of the legs will touch the floor and the table or chair stand firmly. After this form of plug is adjusted the spring plunger or spring engaging the screw exerts sufficient resistance to prevent any further turning of the plug when the foot is in use.

The invention claimed is:

1. A foot comprising a sleeve adapted to be fitted onto the lower end of a leg, a thimble with a closed upper end inserted into the lower end of the sleeve, said thimble having a flange at its lower end conforming

with and fastened to the lower end of the sleeve, and a plug adjustable up and down in said thimble.

2. A foot comprising a sleeve adapted to be fitted onto the lower end of a leg, a thimble with a closed upper end inserted into the lower end of the sleeve, said thimble having an interior thread and a flange at its lower end conforming with and fastened to the lower end of the sleeve, and a plug with an exterior thread screwed into the thimble.

3. A foot comprising a sleeve adapted to be fitted onto the lower end of a leg, a thimble with a closed upper end inserted into the lower end of the sleeve, said thimble having a flange at its lower end conforming with and fastened to the lower end of the sleeve, a plug adjustable up and down in said thimble, and a spring arranged in said plug to offer resistance to its movement.

4. A foot comprising a sleeve adapted to be fitted onto the lower end of a leg, a thimble with a closed upper end inserted into the lower end of the sleeve, said thimble having an interior thread and a flange at its lower end conforming with and fastened to the lower end of the sleeve, a plug with an exterior thread screwed into the thimble, a plunger rotatable with but longitudinally free of the plug, and a spring thrusting between the plug and plunger and causing the latter to offer resistance to the turning of the former.

5. A foot comprising a sleeve adapted to be fitted onto the lower end of a leg, a thimble with a closed upper end inserted into the lower end of the sleeve, said thimble having an interior thread and fastened to the lower end of the sleeve, and a plug with an exterior thread screwed into the thimble.

ROBERT M. KEATING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."