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FURNITURE LEG ATTACHING DEVICE

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The purpose of the present invention is to provide leg-attaching means for furniture whereby the legs can be readily attached to or removed from the body of an article of furniture, so that in shipping the furniture the legs may be packed separately from the body, thus saving space and avoiding breakage. When it is desired to set up the furniture the legs can be applied in a few moments with a minimum amount of labor.

In my Patent No. 1,733,859, dated October 29, 1929, I have shown a triangular attaching plate which is secured to the top of a furniture leg, and in order to secure the leg to an article of furniture screws are passed through the plate into the bottom of said article, and it is necessary to remove and replace these screws in order to remove and replace the leg. In the present invention, I provide a triangular plate of modified form which is secured to the top of the leg in the same way as the plate shown in the patent referred to is secured; but instead of fastening this plate directly to the furniture body, I provide a separate plate which is secured to the body and with which the plate on the leg interlocks. The furniture manufacturer may apply one plate permanently to the body and the other plate permanently to the leg, the legs may be packed for shipment detached from the body, and when it is desired to set up the article of furniture the plates on the legs may be quickly interlocked with the plates on the body, thus saving the time and trouble of inserting screws in the furniture body.

In the accompanying drawing,

Fig. 1 is a side elevation of a leg connected to an article of furniture by the attaching means of the present invention;

Fig. 2 is a perspective view of the lower side of the body plate;

Fig. 3 is a similar view of the leg plate;

Fig. 4 is a section on the line 4—4 of Fig. 1, showing the plates assembled in bottom plan view; and

Fig. 5 is a section on the line 5—5 of Fig. 4.

Referring to Figs. 1 to 3, inclusive, of the drawing, a represents the bottom part of the body of an article of furniture, b indicates a plate which is secured to the bottom of the article, c indicates a leg, and d indicates a plate which extends across the top of the leg and is fastened to it and which is interlocked with the plate b to secure the leg to the body of the article of furniture. The plates b and d are shown separately in Figures 2 and 3.

The plate b is of triangular form, having two sides at a right angle to one another, and along these sides are flanges b' and b" which project at right angles to the body of the plate for a short distance, as indicated at 1, and are hence inclined inwardly over the plate, as indicated at 2, at an angle of about 45° to the plate. Along its base the plate has a flange b', inclined outwardly from the body of the plate at an angle of about 30°. A threaded stud 3 is secured to the body of the plate near the flange b" and about midway of its length, this stud being equidistant from the flanges b' and b". The plate is intended to be permanently attached to the bottom a' of the article of furniture, at one of its corners, and is provided with holes 4 through which wood screws 5 may be passed for securing the plate to the bottom. Where the furniture body is made with sides or strips, as x, y, which depend below the bottom of the body, the flanges b' and b" of the body plate will lie against these strips, as shown in Fig. 4.

The leg plate d, which is triangular in form, is fastened to the top of the leg by a stud 6 and a nut 7. The plate has side flanges d' and d" extending along its right-angled sides, these flanges being approximately of the same height as the parts 1 of the flanges b' and b" on the plate b. The edge d' of the plate d is plain and straight and extends at an angle of about 45° to the flanged edges of the plate. In the body of the plate d, adjacent the edge d" and midway of its length, is a slot 8 which extends in the direction of the corner of the plate where the flanges d' and d" meet, this slot being of sufficient width to permit the stud 3 on the plate d to pass freely through it. The plate d has a circular boss d", in the center of which is an opening 9, through which the fastening screw 6 extends, and the leg has a circular depression into which the boss on the plate fits, as shown...
in Fig. 5, these features being the same as in my patent above referred to. The upper end of the leg is square in cross-section, and when the plate d is applied to the leg, the flanges of the plate fit against adjacent sides of the leg and the stud e extends through the opening 9. The nut 7, threaded on the stud, holds the plate in position. This nut is below the upper surface of the plate, as shown.

The manufacturer of the furniture applies the plate b to the body of the article of furniture and the plate d to the top of the leg. The legs may be packed separately from the body for the purpose of shipment, and when it is desired to apply the legs to the article, each leg is grasped in the hand and the leg plate thereon is placed against the body plate with the edge d of the leg plate resting on the inclined flange b of the body plate and the stud 3 extending through the slot 8 and the flanges of the leg plate close to and parallel with the flanges b' and b of the body plate. By then moving the leg toward the right-angled corner of the body plate, the edge d of the leg plate will slide down on the inclined flange b of the body plate and rest against the parts 1. A nut 10 is then applied to the stud 3 and tightened, and the two plates thus become firmly locked together. To remove a leg, the nut 10 is taken off of the stud and the leg is moved backward to carry the leg plate flanges from under the body plate flanges, the slot 8 in the leg plate permitting of this movement.

What I claim is:

1. Attaching means for furniture legs comprising two right-angled triangular plates, one, a body plate, having along its right-angled sides flanges which overhang the plate and having along its third side a flange which is inclined away from the body and having a stud projecting from the body adjacent the latter flange and midway of its length, and the other, a leg plate, adapted to fit between the flanges of the body plate and having flanges on its right-angled sides adapted to fit under the inwardly inclined portions of the flanges on the corresponding sides of the body plate, said leg plate having a slot to receive the stud on the body plate, said slot being in line with the right-angled corner of the leg plate.

In testimony whereof I affix my signature.

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