

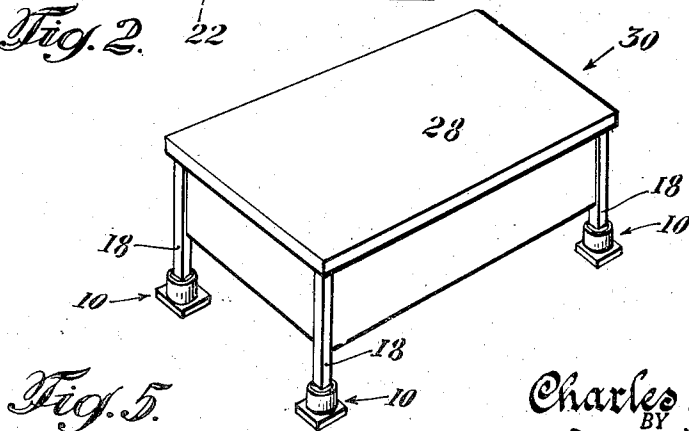
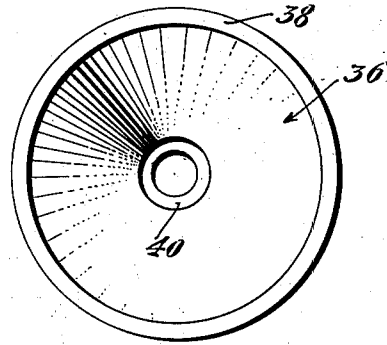
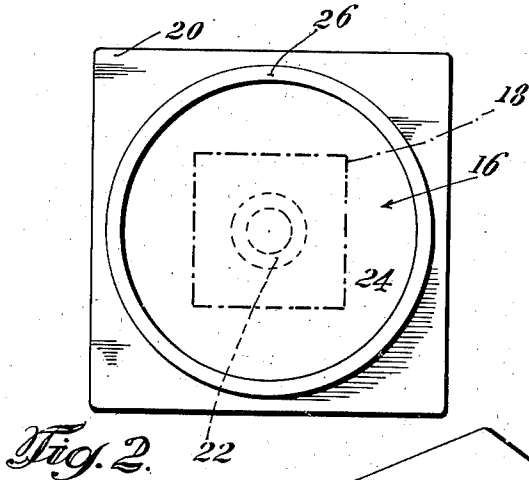
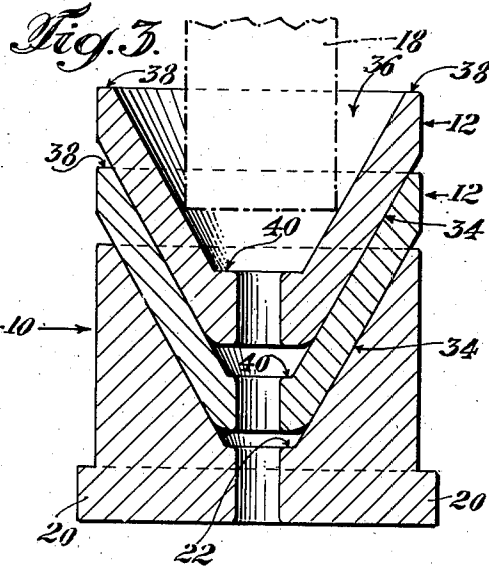
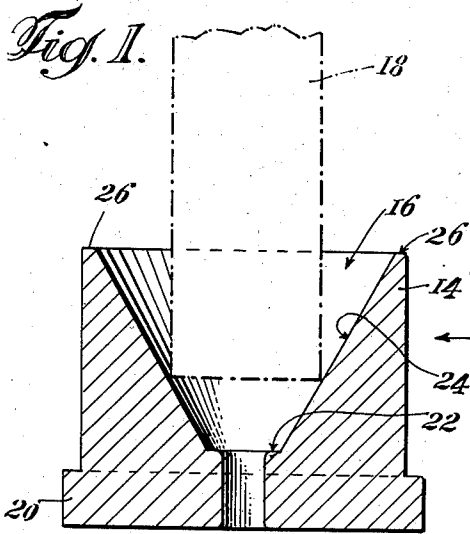
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NESTED FURNITURE LEG SUPPORT

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NESTED FURNITURE LEG SUPPORT

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4 Claims. (Cl. 45—137)

This invention relates to sets of nested leg supports for raising a selected distance the height of articles of furniture, for example desks, chairs or tables.

As is well known the height of conventional pieces of furniture is fixed at the time of their manufacture and thereafter cannot be ordinarily changed except by reconstructing the legs or other parts thereof.

My invention therefore contemplates the provision of a support which is arranged to receive and thereby, in effect, increase the length of a leg of the piece of furniture whose height it is desired to raise.

My invention still further contemplates the provision of a plurality of such supports, which may be nested together in sets, one stacked upon the other, a set for each leg of the article of furniture, to selectively raise the height of the piece of furniture to which they are applied.

My invention still further contemplates the provision of such a set of nested supports, in which the units thereof other than the base constituting member of a set are interchangeable.

My invention still further contemplates the provision of such supports which are substantial in construction, constructed and arranged to receive furniture legs of a variety of sizes and shapes, neat in appearance so that they blend with the appearance of the piece of furniture to which they are applied and therefore do not mar it and which are relatively inexpensive to manufacture.

Other and further objects and advantages of the present invention will become apparent from the following description and the drawing in connection therewith, in which

Fig. 1 is a vertical sectional view of the base member of a set of supports, according to my invention and showing in dotted lines the leg of an article of furniture arranged therein.

Fig. 2 is a plan view thereof.

Fig. 3 is a vertical sectional view of a set of nested supports, according to my invention, and showing in dotted lines the leg of an article of furniture arranged in the top unit of the set.

Fig. 4 is a plan view of an interchangeable extension unit of a set of supports, according to my invention.

Fig. 5 is a perspective view of an article of furniture, such as a table, the legs of which are arranged in the base member of a set of supports to raise the height of the table.

Referring now to the drawing, each set of supports comprises a base member 10 and one or any

greater number of interchangeable upper or extension units 12, which may be nested in each other and in a base member 10.

To give greater stability to the support and the article of furniture, the height from the floor of which is to be raised, and to enhance the appearance of the supports, I prefer to arrange on the base member 10, a collar-like flange 14 to form the cup or socket 16, in each of which sockets a furniture leg 18 is received, integral with and extending up from the platform 20, the area of which is of desired magnitude larger than area of the preferably cylindrical leg receiving cup or socket forming housing or flange 14. It will be understood that the platform 20 may be dispensed with, the base member being cylindrical throughout or of any other selected shape and size, consonant with the desired stability of support.

In order to provide a cup or socket 16, which will accommodate furniture legs of divers sizes and shapes, I form the cup or socket so that it has a relatively large diameter at the entrance thereto, which decreases progressively and uniformly downward to the floor 22 of the cup or socket. I prefer to make smooth and unimpeded the inside surface 24 of the socket which is preferably in the shape of an inverted truncated cone, although any other shape may be used.

Because of the decreasing inner socket diameter, legs of different sizes may be used with the supports, the smaller the size or width of the leg, which is received in the cup or housing, the closer to the floor 22 will it be positioned and the larger the size or width of the leg the closer will it be positioned to the upper edge 26 of the collar 14.

Because of the uniform decrease of the inside diameter, particularly because of the unobstructed inside surface 24 of the socket, a furniture leg arranged therein will be wedged in the socket by the weight of the article of furniture.

While I prefer to make my furniture supports from wood because of the ease and relatively inexpensive wood turning operations used, and the comparative soft characteristic of such material, it will be understood that these supports can be made from any other material, for example plastic or metal.

Referring now to Fig. 5 wherein I illustrate an example of the use of my invention, should it be desired to raise the height of the top surface 28 of the desk or table 30, the legs 18 thereof are each arranged in the socket or housing of the base member 10 of a set of my supports, in effect to thereby increase the length of the

legs without permanently changing their construction.

It will be recognized that the height to which the article of furniture 30 may be raised is first fixed by the size of the base member 10 of a set of supports. Therefore, in order to enable articles of furniture to be raised to different heights, as desired, and to provide a flexible or adjustable support, I provide the additional upper or extension units 12, which are interchangeable with each other and which may be nested together and in the base member 10, as illustrated in Fig. 3 to increase, as desired, depending on the number of upper units used, the effective height of the support.

The outside surface 34 of each interchangeable extension unit 12 is formed of shape, corresponding in size and configuration to the shape of the cup or socket 16, of a base member so that it can be seated, nested therein (in the illustration that of an inverted truncated cone).

Similarly each extension unit 12 is provided with a socket 36 having a relatively large diameter at the upper edge 38 thereof, or entrance thereto, which decreases progressively and uniformly downward to the floor 40 of the socket 36.

The sockets 36 of each upper or extension unit is the same in size and shape as that of any other upper or extension unit and of the base member socket 16 so that furniture legs of divers shapes and sizes will be accommodated in any one of them and so that the extension units may be interchangeably nested in the base member to adjust the height of the support to any selected magnitude.

While I have illustrated in Fig. 3 my supports as comprising a set consisting of a base member and two extension units, it will be understood that any greater number of upper or extension units may be included in each set of supports.

While I have described an embodiment of my invention, I do not intend to be limited to the specific details thereof but intend that my invention be limited only by the scope of the appended claims and the state of the prior art.

I claim:

1. An extensible device in the form of a set of nested supports for adjusting the height of an article of furniture, comprising a base member having a platform rectangular in form and a col-

lar having a diameter less than the base and extending up from the platform, the interior of said collar forming a socket to receive and house therein a leg of an article of furniture the height of which is to be raised, the interior of said collar constituting a cup in the shape of an inverted truncated cone and an extension unit, the exterior of which corresponds in size and shape to the said cup for nesting the extension unit in the base member, the interior of said extension unit corresponding in size and shape to the cup.

2. An extensible device for adjusting the height of an article of furniture, in the form of a set of nested supports comprising a base member and an extension unit nested therein, said base member having a cup-like interior for receiving therein a leg of the article of furniture the height of which is to be adjusted, said cup-like interior decreasing in section uniformly progressively from the top edge of the member to the floor thereof, the exterior of the extension unit corresponding in size and shape to the cup-like interior of the base member for nesting the extension unit therein and said extension unit having a cup-like interior decreasing in section uniformly progressively from the top edge of the extension unit to the floor thereof.

3. An extensible device for adjusting the height of an article of furniture, in the form of a set of nested supports comprising a base member and an extension unit removably nested therein, the interior of the base member being in the form of a cup for receiving therein a leg of the article of furniture, the interior of the base member decreasing in section from the top edge to the floor thereof, the exterior of the extension unit corresponding in size and shape to the interior of the base member and the interior of the extension unit forming a cup decreasing in section from the top edge to the floor thereof.

4. An extensible device for adjusting the height of an article of furniture, in the form of a set of nested supports for each leg of the article of furniture, each set comprising a base member and an extension unit removably nested therein, the interiors of both the base member and the extension unit decreasing in section from the edge to the floor thereof.

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