Nov. 2, 1943. G. W. LUDERS, JR 2,333,539

OFFICE FURNITURE

Filed June 14, 1941

Fig. 1.

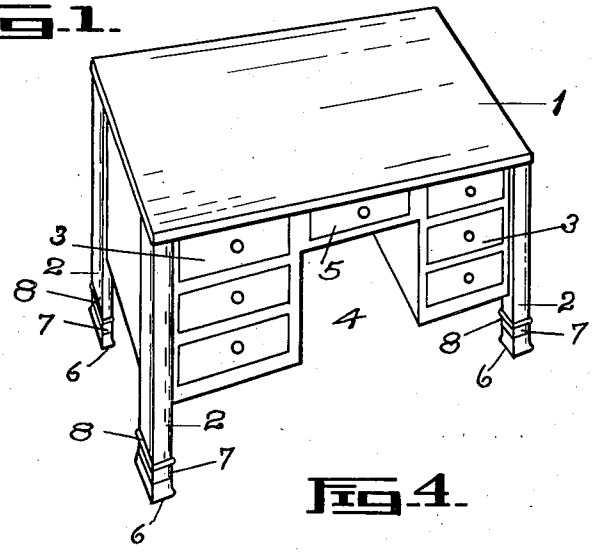


Fig. 2.

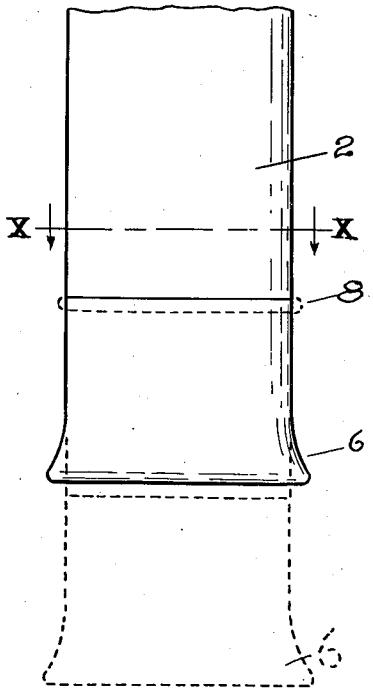


Fig. 3.

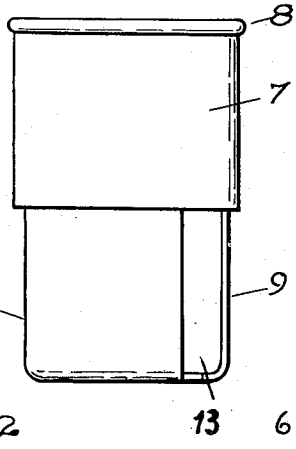


Fig. 4.

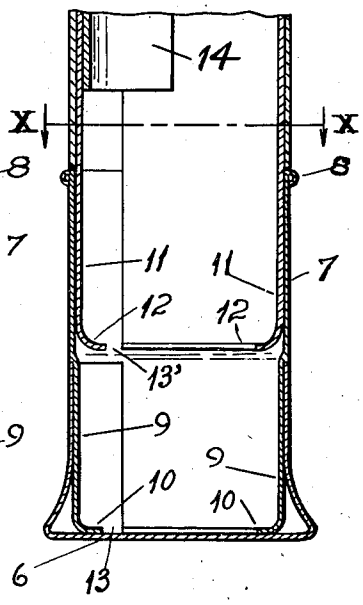
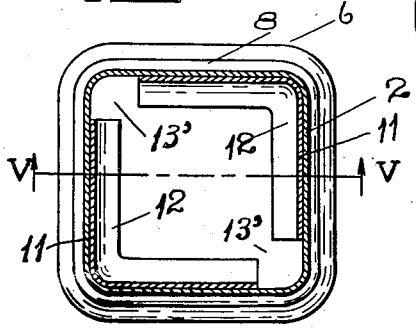


Fig. 5.



Inventor

Gustave W. Luders Jr.

By

Charles W. Dake

Attorney

Patented Nov. 2, 1943 2,333,539

UNITED STATES PATENT OFFICE

2,333,539

OFFICE FURNITURE

Gustave W. Luders, Jr., Muskegon, Mich., assignor to Browne-Morse Company, Muskegon Heights, Mich.

Application June 14, 1941, Serial No. 398,120

1 Claim. (Cl. 45—137)

My present invention relates to improvements in furniture, and particularly to such office furniture as desks and the like having a plurality of supporting legs and a work top; and the primary objects of improvement are, first, to provide a convenient means for changing the height of such furniture as desks and the like; second, to provide a desk or like piece of furniture that can be easily adjusted in height for the accommodation of users of different stature and weight; third, to provide a simple means of changing the height of desks and like furniture; fourth, to provide an improved means for changing the height of desks and like furniture that will be simple in construction; fifth, to provide an improved means for changing the height of desks and like furniture that will be readily understood by the usual layman; sixth, to provide an improved means for changing the height of desks and other furniture that will be strong and not liable to disorder. These named objects and such other objects as may appear from a perusal of the following description when said description is taken in connection with the structure disclosed in the accompanying drawing, in which—

Figure 1 is a perspective view of an office desk provided with my improved means for changing the height thereof.

Figure 2 is an enlarged vertical elevation view of one of the desk tubular supporting legs adjusted to its short length for supporting the desk at its lower height, with the extended desk leg shown by broken lines.

Figure 3 is a side elevation view of one of the leg extension members.

Figure 4 is a vertical cross-section view showing the elements comprising my present invention in assembly and taken on a plane extending vertically on line V—V of Figure 5, the view showing a desk leg extended as when the desk is raised.

Figure 5 is a cross-sectional view of the desk leg shown in Figure 3 and taken on a plane looking downward from line X—X of Figures 2 and 4.

Throughout the drawing of my invention, similar numerals refer to similar parts or portions, and referring thereto—

Numeral 1, designates the top of a desk having my improved means for changing its height, 2 the legs by which the desk is supported, 3 side drawers of the desk, 4, the knee space between the drawers 3 and below the master drawer 5. Numerals 6 designate the hollow foot or slide shoe members which are removably attached to the tubular desk supporting legs 2 by springable metal dowel members when the desk is in lowered position. Numeral 7 designates the tubular extension members by which the height of the desk is changed, the said extension members having extending around their top bead 8 whereby the walls of the extension member is strengthened and stiffened, each extension member having lower end, springable dowel members 9 preferably formed as integral parts of the side walls of the tubular extension members, each dowel member having an inturned flange 10 at its free end in spaced apart relation to the tubular body portion of the extension member. Each supporting leg of the desk having springable metal dowel members 11 extending from its end and with inturned flanges 12, similar to flange 10 of the dowel members, 9 which extend into the hollow foot member 6 when the extension member is removed or not in place between the foot member and the supporting leg. Between the dowel members of the tubular desk leg and the extension members are opening slots 13 and 13' whereby the said dowels are permitted to spring inward when the extension member is forced over the dowels of the desk leg or the foot member is forced over the dowel members of the extension member. Within the tubular leg 2 and extending longitudinally thereof is reinforcing member 14 consisting of a strip of sheet metal of L cross-sectional form and overlapping a seam extending longitudinally of the leg at one of its vertical corners and secured to the inner side of the side walls thereof by spot welding.

The usual height of office desks and other like office furniture is thirty inches, this height is satisfactory for persons of normal stature, but not for persons of short stature, persons having short legs or overweight. For these latter persons, the chair seat occupied must be elevated to accommodate for reach over the top of the desk top, and if the person is short legged or of considerable overweight the edge of the chair seat chafes the under-side of the leg thereby retarding blood circulation, and causes nervousness, or cramps, all of which is annoying and detrimental to health, and efficiency of the worker at the desk. My present invention overcomes all of these named objections, as the desk or other furniture may be changed in height to a height best suited to the person using the desk, the amount of elevation provided in the desk shown is one and one half inches, but can be any amount desired by merely providing suitable length extension members.

Having described my present invention, the

rights to which I desire to secure are disclosed in the claim.

I claim:

In a desk having a work top adapted to be raised and having a plurality of supporting legs each leg having a pair of springable dowel members in vertically spaced apart relation to each other extending from its lower end and a hollow foot member adapted to be detachably secured to the supporting leg by the said dowel members for adjusting the leg length and thereby raising the work top of the desk, a hollow extension member having a cross-sectional form corresponding generally to the cross-sectional form of the said leg and adapted to be engaged by the dowel members extending from the said leg, the said extension member having a plurality of springable dowel members extending from the lower end thereof for engaging said hollow foot substantially as described.

GUSTAVE W. LUDERS, JR.