July 16, 1957 R. R. LUXFORD 2,799,549

UTILITY STAND

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Fig. 1.

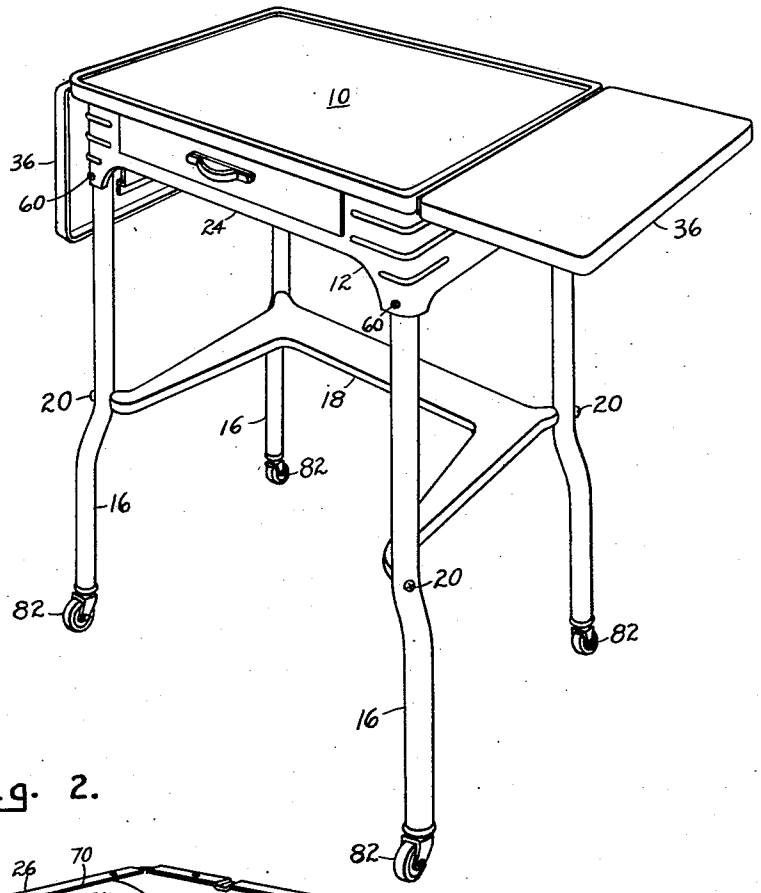
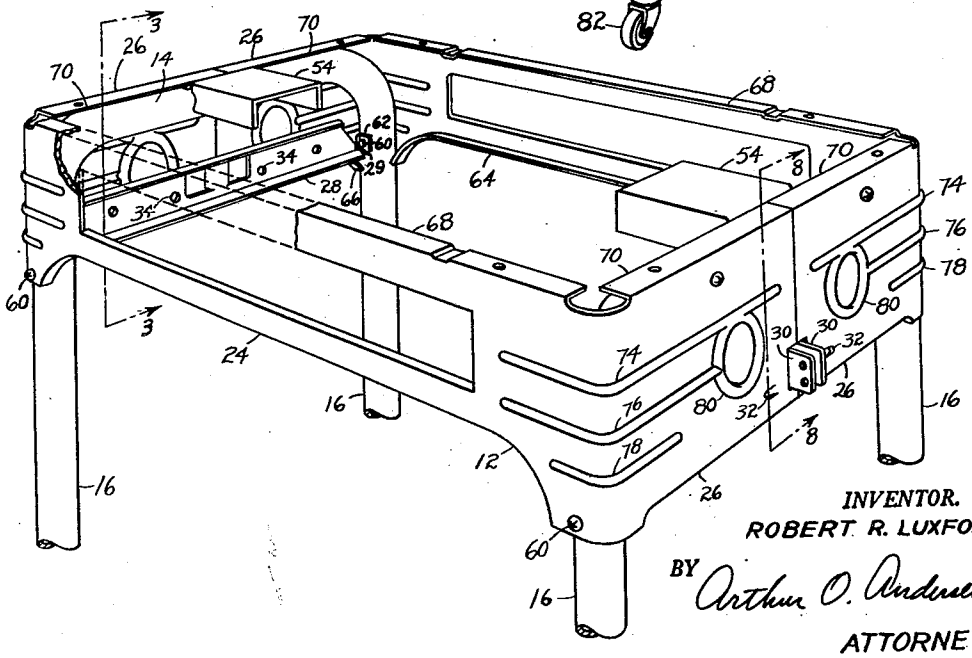


Fig. 2.



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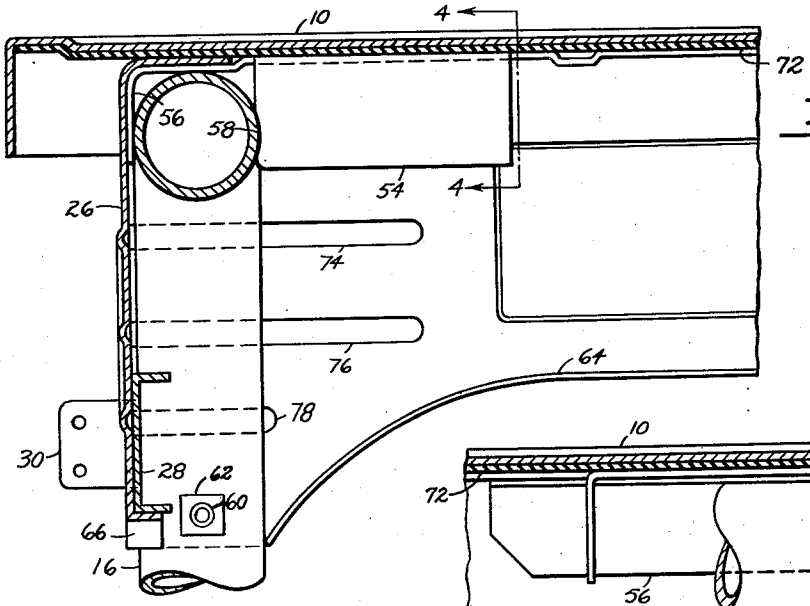


Fig. 3.

Fig. 4.

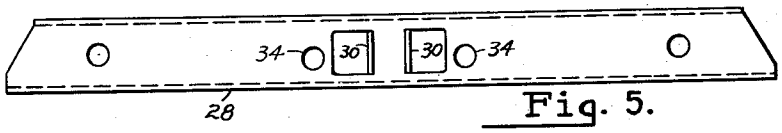


Fig. 5.

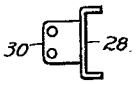


Fig. 6.

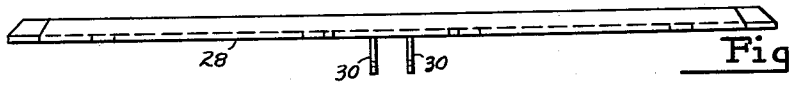


Fig. 7.

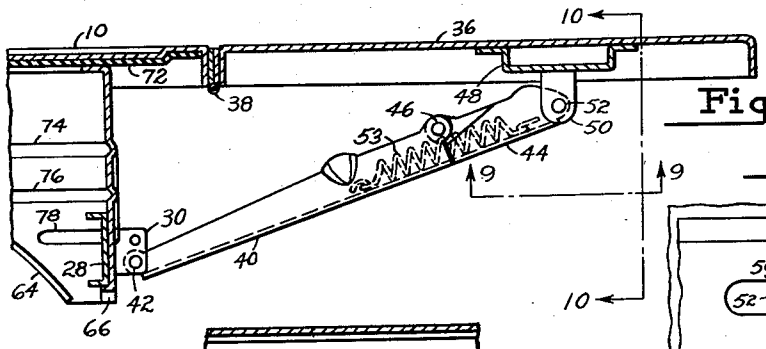
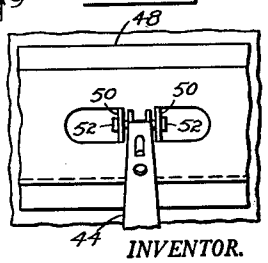


Fig. 8.

Fig. 9.



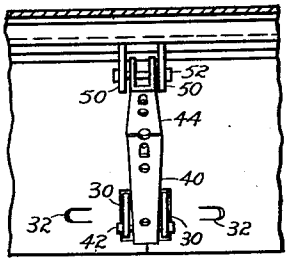


Fig. 10.

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2,799,549

UTILITY STAND

Robert R. Luxford, La Crosse, Wis.

Application October 29, 1956, Serial No. 618,876

4 Claims. (Cl. 311—105)

This invention relates to utility stands and stands for supporting a typewriter, a calculator or the like.

It is the object of this invention to provide a stand which may be shipped with parts disassembled yet may be easily assembled by the purchaser into a strong and rigid unit.

It is another object of this invention to provide a unitary bracket to which the legs and the top are secured to provide a rigid unitary assembly.

It is another object of this invention to provide sound isolating material between the top and the other parts of the stand.

Other objects and advantages of the invention will become apparent as the specification proceeds to describe the invention with reference to the drawings in which:

Fig. 1 is a perspective view of the stand;

Fig. 2 is a perspective view of the stand with the top removed and a portion of the frame and the lower portions of the legs broken away;

Fig. 3 is a partial sectional view taken on line 3—3 of Fig. 2;

Fig. 4 is partial sectional view taken on line 4—4 of Fig. 3;

Fig. 5 is an elevational front view of the channel;

Fig. 6 is an end view of the channel;

Fig. 7 is a top plan view of the channel;

Fig. 8 is a partial sectional view of the stand taken on line 8—8 of Fig. 2;

Fig. 9 is a view taken on line 9—9 of Fig. 8; and

Fig. 10 is a sectional view taken on line 10—10 of Fig. 8.

Referring now to Figs. 1 and 2, a top 10 is secured to a substantially rectangular frame 12. Secured to each end of frame 12 is a U-shaped tubular leg member having a cross-piece 14 and legs 16. A flanged U-shaped brace 18 is secured by screws 20 to all the legs 16. Frame 12 has two U-shaped panels each having integral side plates 24 and end plates 26. The ends of the end plates 26 are held in abutting relation by channels 28 which are spotwelded to the abutting end plates 26. The ends of channels 28 engage the legs 16 at 29 as shown in Fig. 2. Two tabs 30 are struck outwardly from the web of each channel 28 and extend substantially normal to the web of the channel 28. The tabs 30 extend through cut out portions of the end plates 26. The end plates 26 have inwardly struck prongs 32 which enter holes 34 in channels 28 to insure correct register of the end plates 26 for spotwelding of the channels 28 to the end plates 26. The lower flanges of channels 28 have beveled ends 29 which engage legs 16.

End panels 36 are secured to the ends of the top 10 by hinges 38. A lower arm 40 is U-shaped in cross-section and is pivoted to the tabs 30 by a pin 42. An upper arm 44 is U-shaped in cross section and is pivoted to the lower arm 40 by having the arm 40 riveted at 46 into holes in the upper arm 44.

A channel 48 is spot-welded to each end panel 36.

Tabs 50 are struck downwardly from the web of channel 48. Upper arms 44 are pivoted to the tabs 50 by pins 52. A spring 53 secured at one end to lower arm 40 and at the other end to arm 44 resiliently holds the arms in alignment.

Channels 54 are secured to the top 10 as by spotwelding. Each of the channels 54 has a down turned tab 56 extending from its web. The tab 56 is welded to the end panels 26 of the frame 12. The ends of the sides of the channels 54 have recesses 58 to receive the cross-piece 14 of the tubular leg members.

The channels 54 are constructed so that the crosspiece 14 must be forced into place between the down turned flange 56 and the recesses 58 in the sides of the channel 54. At each corner of the frame 12, a bolt 60 extends through the frame 12 and the leg 16. A nut 62 is tightened on each bolt 60 to securely hold the legs 16 to the frame 12.

The side plates 24 and the end plates 26 of the frame 12 have inwardly extending lower flanges 64 and 66 respectively. The ends of flanges 64 and 66 resiliently engage the legs 16. The side plates 24 and the end plates 26 of the frame 12 have inwardly extending upper flanges 68 and 70 respectively.

The under surface of the top 10 has secured thereto a plastic resilient coating 72 of sound isolating material. I prefer that the coating 72 shall be of a composition having asphalt or rubber as a base. The top 10 is spotwelded to the inwardly extending flanges 68 and 70 and to the channels 54 with the spot welds extending through the plastic coating 72.

The frame 12 has outwardly formed beads 74, 76, and 78 to give added strength to the frame. A circular bead 80 has its center on the axis of bead 76 and is tangent to the bead 74.

Casters 82 are secured to the ends of the legs 16 to provide mobility to the stand.

Although I have shown a specific embodiment of my invention, I contemplate that various changes may be made without departing from the scope or spirit of my invention, and I desire to be limited only by the claims.

I claim:

1. A stand comprising a pair of U-shaped panels each having a side plate and spaced parallel end plates, means for securing the ends of said end plates in abutting relationship, a top spot welded to said U-shaped panels, channels having their webs spot welded to each end of the underside of said top and having their sides extending downwardly from said webs, said channels having web portions extending beyond the sides of said channels and terminating in a downwardly extending tab abutting and being secured to the end plates of said U-shaped panels, U-shaped tubular leg members having legs and a cross-piece portion with the cross piece portion in forced engagement with the tab and the ends of the sides of said channels, and means for securing said legs of said U-shaped tubular leg members to said U-shaped panels.

2. A stand comprising a pair of U-shaped panels each having a side plate and spaced parallel end plates, channels secured to the inner sides of said end plates to hold the ends of said end plates of said U-shaped panels in abutting relationship, tabs extending outwardly from said channels through openings in said end plates, a top secured to said U-shaped panels, end panels, hinges pivotally securing said end panels to said top, upper arms pivotally secured to said end panels, lower arms pivotally secured to said tabs, means pivotally securing said upper arms to said lower arms, and a spring secured to said upper arm and to said lower arm to resiliently hold said upper and lower arms in substantial alignment.

3. A stand comprising a pair of U-shaped panels each having a side plate and spaced parallel end plates, means

for securing the ends of said end plates of said U-shaped panels in abutting relationship to form a substantially rectangular frame, said side plates and said end plates having flanges extending inwardly with respect to said rectangular frame, a top, a plastic sound isolating material secured to the underside of said top, and spotwelds between said top and the flanges of said side plates and between said top and the flanges of said end plates, said spot welds extending through said plastic sound isolating material.

4. A stand comprising a pair of U-shaped panels each having a side plate and spaced parallel end plates, means for securing the ends of said end plates in abutting relationship, a top spotwelded to the upper edges of said U-shaped panels, U-shaped tubular leg members having legs and a cross-piece portion, means secured to said U-shaped tubular leg members at the cross piece portions and to the underside of said top to support said U-shaped tubular leg members with respect to said top, inwardly extending flanges on the lower edges of said U-shaped panels, said inwardly extending flanges resiliently engaging the legs of said U-shaped tubular leg members and means extending through said U-shaped panels and secured to said U-shaped tubular leg members to secure said U-shaped tubular leg members to said U-shaped panels.

References Cited in the file of this patent

UNITED STATES PATENTS

1,063,877	Hart	June 3, 1918
2,310,904	Bales	Feb. 9, 1943
2,577,399	Bell	Dec. 4, 1951
2,578,922	Cramer	Dec. 18, 1951
2,594,262	Howe	Apr. 22, 1952
2,597,166	Murray	May 20, 1952