Nov. 8, 1955 D. CHAPMAN ET AL 2,722,965

COMBINATION DESK-SEAT UNIT

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Fig. 1.

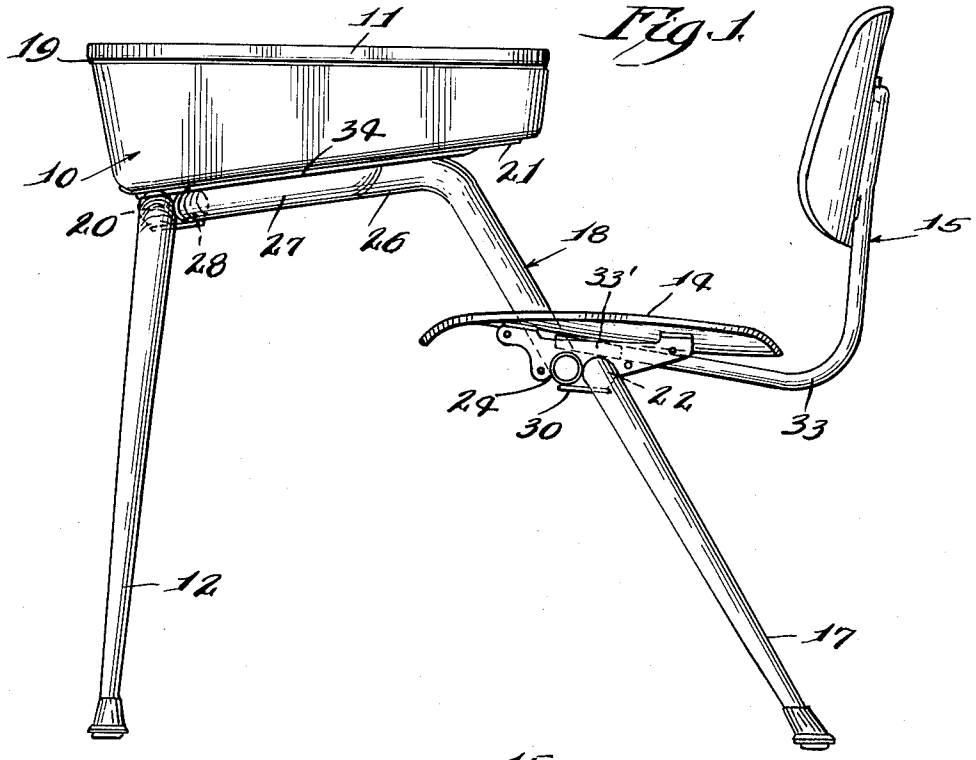
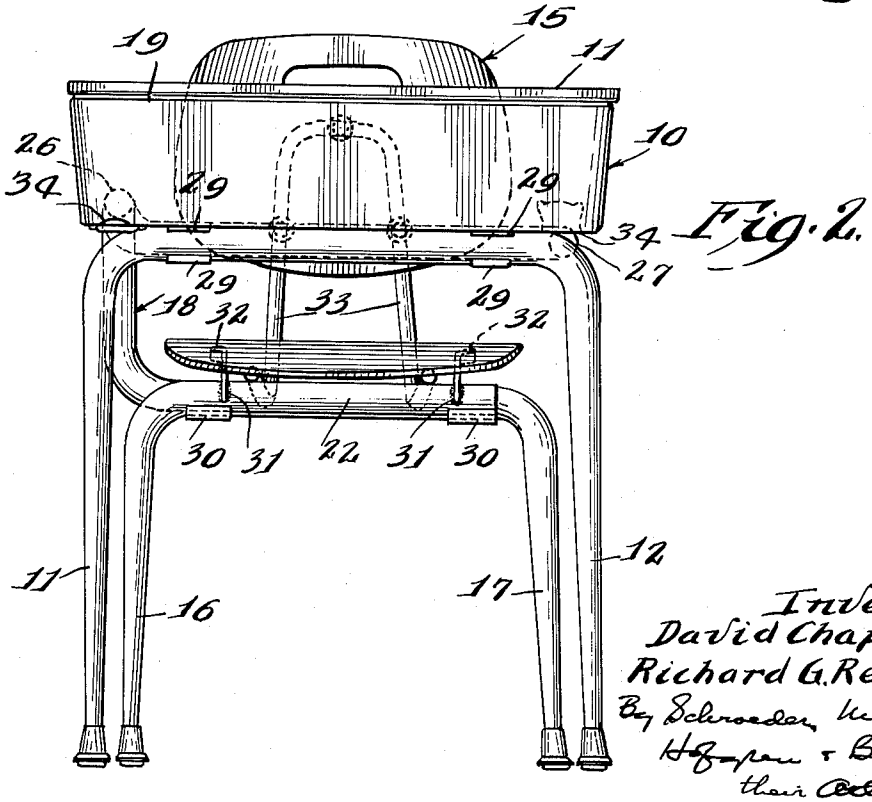


Fig. 2.



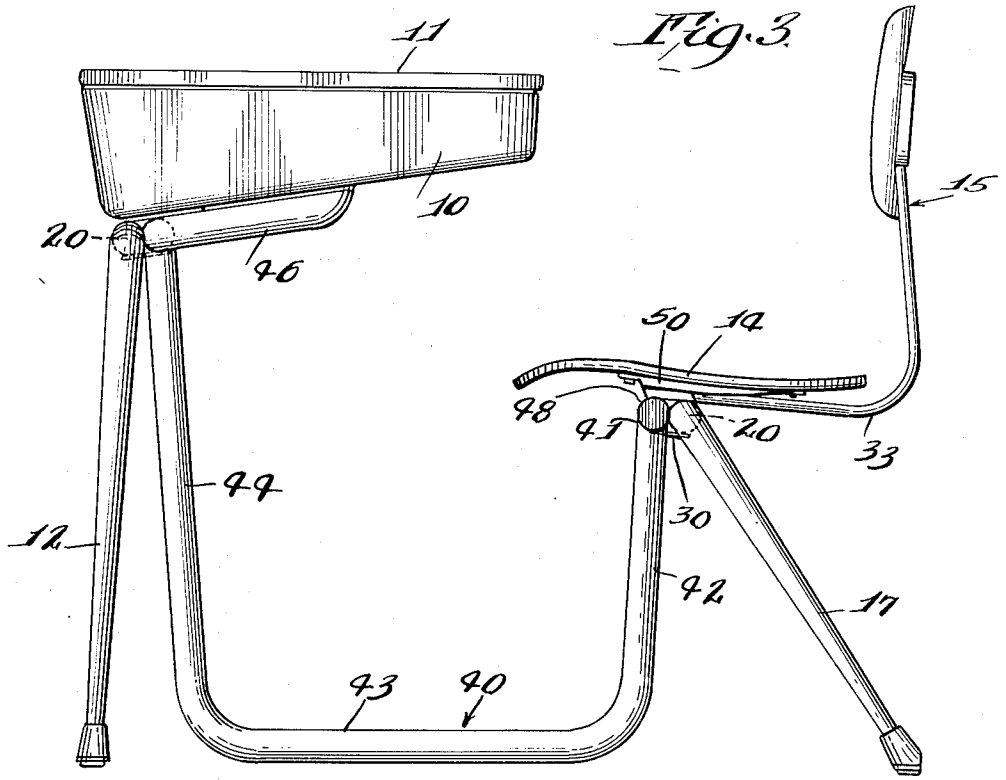
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Fig. 3.



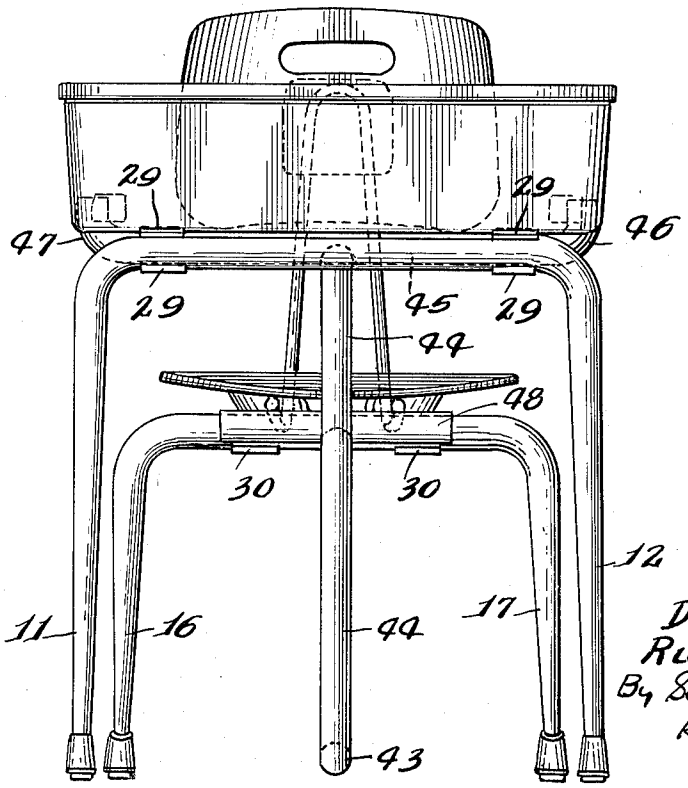


Fig. 4.

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United States Patent Office

2,722,965

Patented Nov. 8, 1955

2,722,965

COMBINATION DESK-SEAT UNIT

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Application February 13, 1953, Serial No. 336,772

3 Claims. (Cl. 155—3)

The invention relates more particularly to a combination desk-chair unit.

It is the general object of the invention to provide a new and improved desk-chair unit for school classroom use.

Another object is to provide such a unit of simple but sturdy construction and having a minimum of parts adjacent the floor to interfere with cleaning the floor.

Another object is to provide a desk-chair unit of a new and improved construction having a desk top, a U-shaped desk leg member having the cross part thereof positioned under the forward edge of the top box and the leg parts extending downwardly therefrom, a chair seat and back, a U-shaped chair leg member having the cross part thereof positioned beneath the chair seat in a direction parallel to the cross part of the desk leg member and the leg portions thereof extending downwardly and rearwardly from the chair seat and a connecting frame member having a portion at one end thereof secured to the connecting part of the chair leg member and a portion at the other end thereof secured to the connecting part of the desk leg member so that said leg members and connecting member form a rigid stable desk top and chair supporting structure.

Other objects will become readily apparent from the following detailed description, taken in connection with the accompanying drawings in which:

Fig. 1 is a side elevational view of a preferred form of the invention;

Fig. 2 is a front elevational view thereof, looking at the left hand end of Fig. 1;

Fig. 3 is a side elevational view of a modified form of the invention;

Fig. 4 is a front elevational view thereof, looking at the left hand end of Fig. 3.

As illustrated in Figs. 1 and 2, the invention in its preferred form has a desk top comprising a box **10** and a lid **11**, a desk leg member providing legs **12** and **13**, a chair having a seat **14** and a back **15**, a chair leg member providing legs **16** and **17**, and a connecting frame member **18** extending between and having its ends secured to the desk leg member and chair leg member.

The box **10** may be of metal whereas the lid **11** is preferably of wood and is hinged along the front edge **19** of the box.

The legs **12** and **13** are tapered from top to bottom and are tubular in form and made of metal. They are integral parts of a metal tube desk leg member, formed into a U-shape and which provides a cross part **20** between the legs. This cross part extends under and is secured to the bottom **21** of the box along its front edge.

The chair legs **16** and **17** are also tapered from top to bottom and tubular in form. They are also made of metal and are integral parts of a metal tube chair leg member, formed into a U-shape, and which provides a cross part **22** between the legs. The legs are preferably inclined rearwardly and downwardly from the chair seat **14** as shown in Fig. 1.

Intermediate the chair leg member and desk leg member is the tubular frame member **18**. This member has a part **24** arranged parallel to and against the cross part **22** of the chair leg member, an upwardly inclined part **25** extending to the underside **21** of the box **10** and a somewhat U-shaped portion underlying the bottom of said box. This U-shaped portion has side portions **26** and **27** and a cross part **28**, the cross part **28** lying alongside the cross part **20** of the desk leg member. Parts **28** and **20** are rigidly secured together by pairs of plates **29**, preferably welded to said parts. Similarly, cross part **22** of the chair leg member is secured to the adjacent end portion **24** of the tubular connecting member by means of plates **30** which are welded thereto.

A pair of seat brackets **31** have their lower edges welded to the cross parts **22** and **24** and have their opposite edges secured by flanges **32** and suitable screws or other attaching devices to the chair seat **14**. A U-shaped tubular member **33** forming a part of the chair back **15**, has its forwardly extending ends filled with solid metal plugs **33'** and welded to the top of the cross parts **22** and **24**, thus the chair back is supported directly from the frame structure of the unit and the seat is supported directly on the frame structure independently of the back.

As shown in Figs. 1 and 2, the box **10** is secured to the frame structure by means of a pair of metal strips **34** positioned intermediate the portions **26** and **27** of the connecting member and the bottom of the box. These strips may be secured to the box and frame parts by welding or rivets or other suitable means.

As shown in Figs. 3 and 4, a modified form of the invention has a top also comprising a box **10**, a chair seat **14**, a back **15**, desk leg member providing legs **11** and **12** and a chair leg member providing legs **16** and **17** the same as shown in Figs. 1 and 2. The connecting frame member in this form of the invention however is so arranged that a pupil may enter and leave the desk-seat unit from either side. Thus a tubular connecting frame member **40** has one end **41** welded to a short cross tube **48** which in turn is fastened to the cross part **22** of the chair leg member by plates **30** welded thereto. The connecting frame member is somewhat U-shaped as shown in Fig. 3 and has one leg portion **42** extending downwardly from the chair seat to a position adjacent to the floor, a floor portion **43** extending to the left along the floor and a front leg portion **44** extending upwardly so that this end of the frame member reaches a position immediately under the box. There it is welded to the cross part **45** of a U-shaped tubular member having side portions **46** and **47** underlying and secured to the bottom of the box to form a support therefor. Here again the cross part **20** of the desk leg member and the cross part **45** are secured rigidly together by means of a pair of plates **29** welded thereto.

In this form of the invention also the chair seat and chair back are independently supported directly on the frame structure, the chair back by means of a U-shaped member **33** having its forward ends welded to the cross parts **20** and **48**. The seat **14** has a hollow metal pan **50** secured thereto which is secured to the cross parts **20** and **48** by means of welding.

We claim:

1. A desk-chair unit having, in combination, a desk top, a chair seat and back, and a supporting leg structure comprising a U-shaped metal tube desk leg member positioned with the cross part under the front portion of the bottom of the top and parallel to the front edge thereof and with the legs extending downwardly therefrom, a U-shaped metal tube chair leg member positioned with the cross part under the chair seat and secured thereto in a position somewhat parallel to the cross part

of the desk leg member and with the legs thereof extending downwardly and rearwardly from the chair seat, and a tubular connecting frame member having a portion at one end thereof extending generally parallel to the cross part of the desk leg member and a portion at the other end thereof extending generally parallel to the cross part of the chair leg member, plate means interconnecting said portions to the desk leg member and chair leg member, respectively, so that said desk leg member, seat leg member, and tubular connecting frame member form a rigid stable structure.

2. A desk-chair unit having, in combination, a desk top comprising a box, a chair seat and back, and a supporting leg structure comprising a U-shaped metal tube desk leg member positioned with the cross part under the front portion of the bottom of the top and parallel to the front edge thereof and with the legs extending downwardly therefrom, a U-shaped metal tube chair leg member positioned with the cross part under the chair seat and secured thereto in a position somewhat parallel to the cross part of the desk leg member and with the legs thereof extending downwardly and rearwardly from the chair seat, and a tubular connecting frame member having one end portion bent parallel to and extending alongside the cross part of said chair leg member, an intermediate portion extending upwardly from one side edge of the chair seat to the same side edge of the underside of the top, and a U-shaped portion underlying the desk top with the cross part of the U parallel to and extending alongside the cross part of the desk leg member, and plate means fastened to said end portion and chair leg member cross part and to the cross parts of the U-shaped portion and desk leg member to join the leg structure and connecting frame member into a unitary structure.

3. A desk-chair unit having, in combination, a desk top, a chair seat and back, and a supporting leg structure comprising a U-shaped metal tube desk leg member positioned with the cross part under the front portion of the bottom of the top and parallel to the front edge thereof and with the legs extending downwardly therefrom, a U-shaped metal tube chair leg member positioned with the cross part under the chair seat and secured thereto in a position somewhat parallel to the cross part of the desk leg member and with the legs thereof extending downwardly and rearwardly from the chair seat, a cross tube secured to the cross part of the chair leg member, a tubular connecting member having one end secured to the cross tube, an intermediate portion extending downwardly from the chair seat to a position closely adjacent a floor then forwardly to a position under the top and then upwardly to the bottom of the top adjacent to the front edge thereof and a U-shaped tubular member secured to the upper end of said intermediate portion and to the cross part of the desk leg member and to the top.

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