Oct. 28, 1969 G. KAPOSI 3,475,052

PORTABLE ARM CHAIR TABLE

Filed May 29, 1967 3 Sheets-Sheet 1

Fig-1-

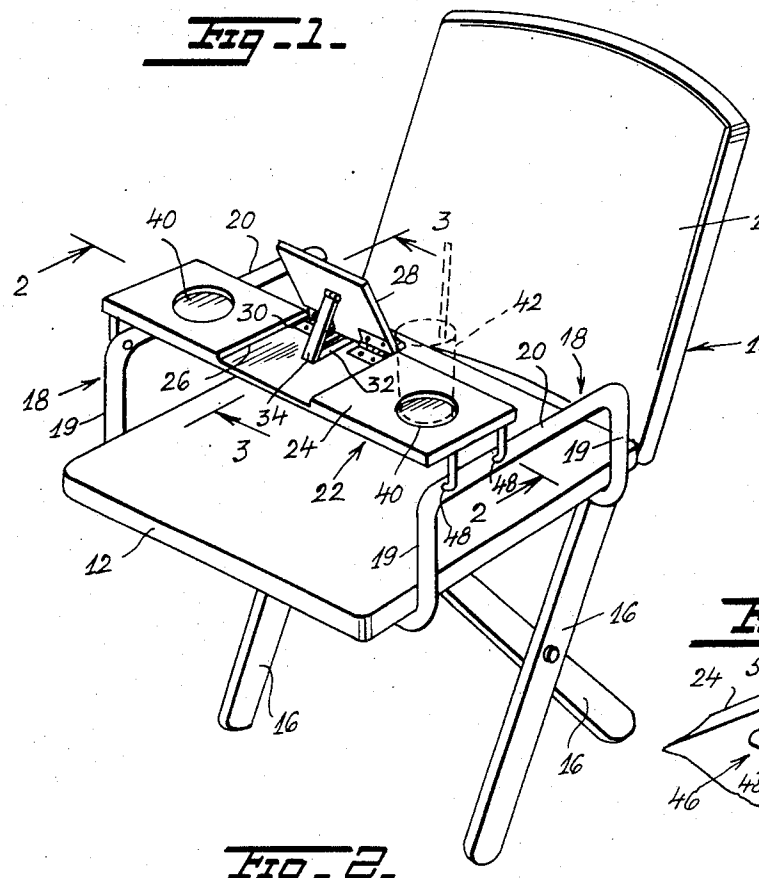


Fig-5-

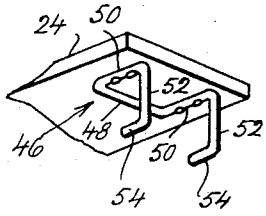


Fig-2-

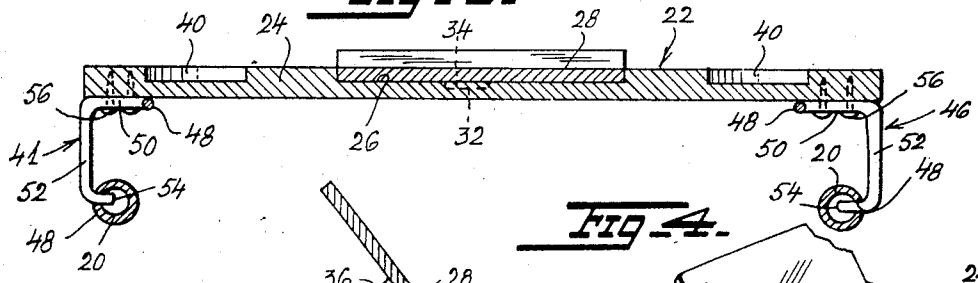


Fig-3-

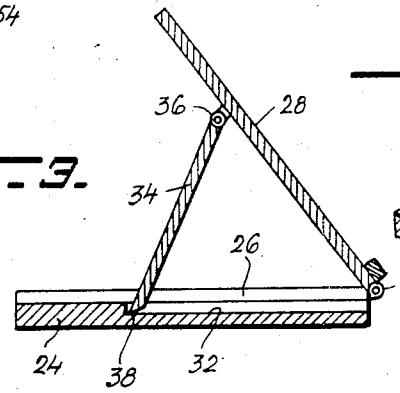
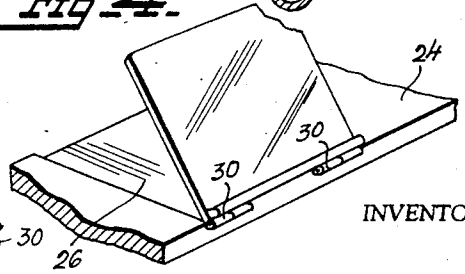


Fig-4-



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PORTABLE ARM CHAIR TABLE

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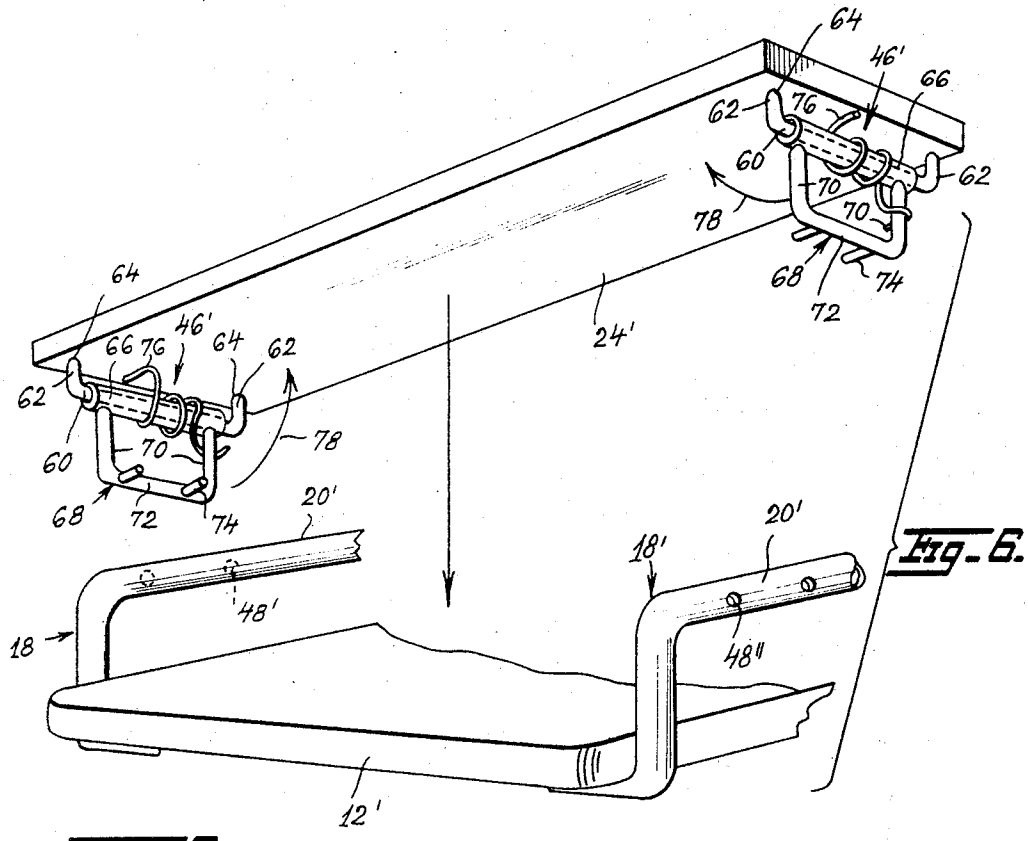


Fig. 6.

Fig. 7.

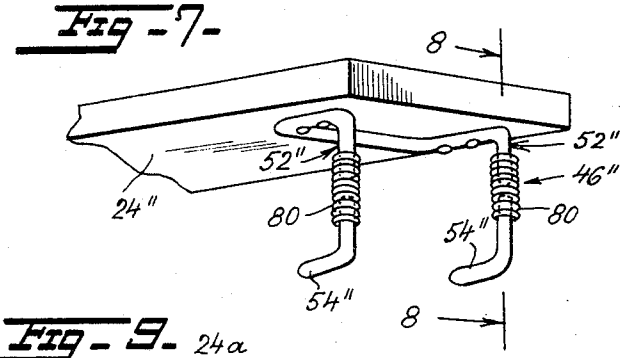


Fig. 8.

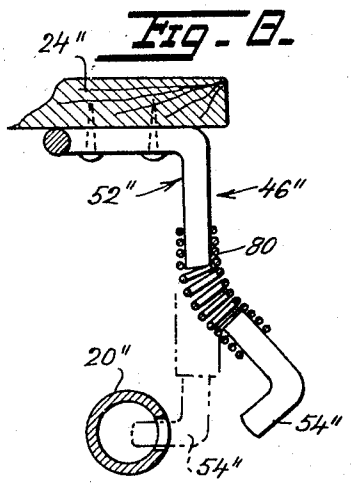
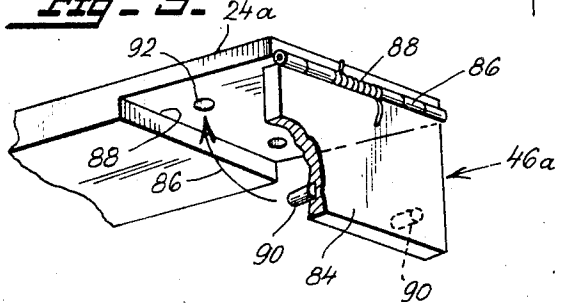


Fig. 9.



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PORTABLE ARM CHAIR TABLE

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Fig-10.

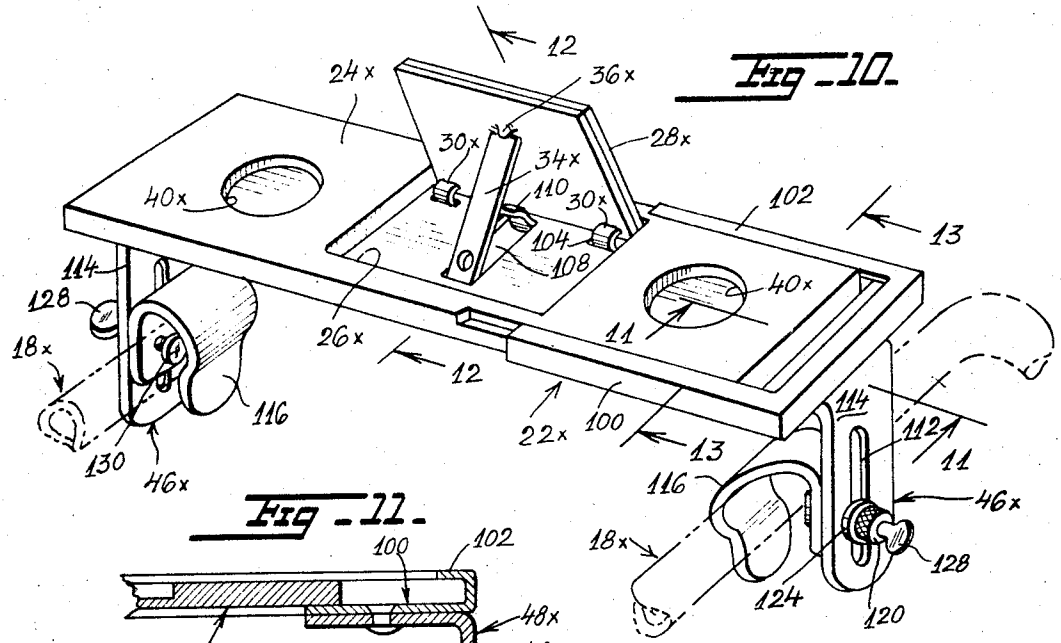


Fig-11.

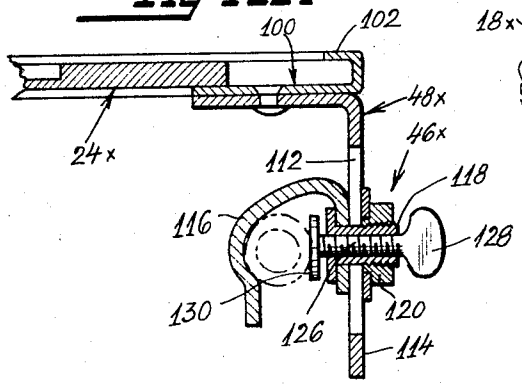


Fig-13.

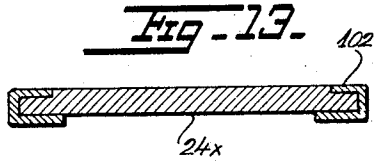


Fig-12A.

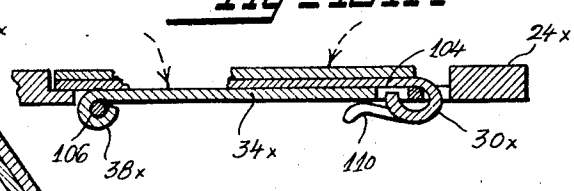
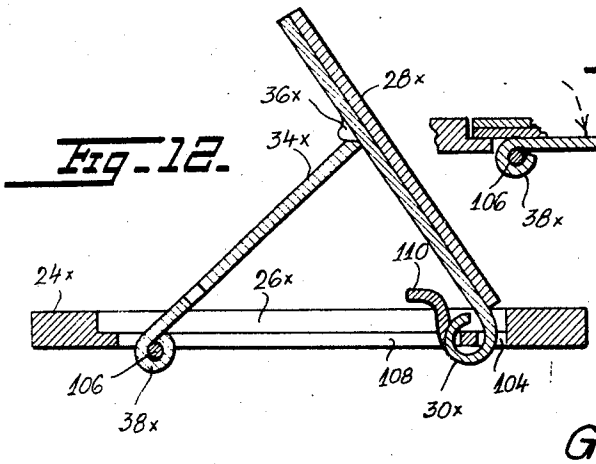


Fig-12.



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3,475,052

PORTABLE ARM CHAIR TABLE

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Int. Cl. A47b 83/02
U.S. Cl. 297—153 5 Claims

ABSTRACT OF THE DISCLOSURE

An arm chair table for mounting on the perforated arm rests of a chair that is simple in construction and easily set up. The table comprises an elongated rectangular board with recesses therein for supporting glasses and the like. A panel is hinged at one long side for supporting a book when elevated, the panel being provided with means for holding it in elevated position. Leg assemblies carried by the board are adapted to interlock with the arm rest for removably attaching the board to the arm rests.

An important object of the present invention is to provide a portable table or tray which may be readily and easily set up on the arm rests of a chair over the lap of the user of the chair, for supporting a book or the like in slanting position for reading and for supporting drinking glasses and the like and under all conditions of use does not interfere with the free leg or body movement of the user or require that the hands of the user be employed to hold the device in the desired position.

Brief description of views of the drawings

FIGURE 1 is a front perspective view of a chair with a table or tray embodying the invention supported on the arm rests thereof, the book support being shown in elevated position, a drinking glass being shown in supported position in dash lines.

FIG. 2 is an enlarged horizontal sectional view taken on the plane of the line 2—2 of FIG. 1, the book support being shown closed.

FIG. 3 is a vertical sectional view taken on the plane of the line 3—3 of FIG. 1, on an enlarged scale.

FIG. 4 is a fragmentary top perspective view showing the book support in elevated slanted position.

FIG. 5 is a bottom perspective view of one end of the table or tray showing the arm rest attaching devices.

FIG. 6 is a fragmentary disassembled perspective view of a portable table or tray embodying a modified form of the invention preparatory to mounting on the arm rests of a chair.

FIG. 7 is a bottom perspective view of an end of a table or tray embodying a modified form of arm rest attaching device.

FIG. 8 is a vertical sectional view taken on the plane of the line 8—8 of FIG. 7, showing the attaching device in moved vibrated position in full lines and in attaching position in dash lines.

FIG. 9 is a view similar to FIG. 7 showing another modified form of arm rest attaching device, parts being shown broken away.

FIG. 10 is a top perspective view of a table or tray embodying still another modified form of the invention shown supported on the arm rests of a chair.

FIG. 11 is a sectional view taken on the plane of the line 11—11 of FIG. 10.

FIG. 12 is a cross-sectional view taken on the plane of the line 12—12 of FIG. 10.

FIG. 12A is a similar view showing the book support in collapsed condition, parts being shown broken away.

FIG. 13 is a similar view taken on the plane of the line 13—13 of FIG. 10.

Detailed description of the drawings

Referring now in detail to the various views of the drawings, in FIG. 1, a conventional type of arm chair **10** is shown having a seat **12**, back rest **14**, cross supporting pivotal legs **16** and upright tubular inverted U-shaped arm rests **18**. The ends of the leg portions **19** of the arm rests are hooked over the sides of the seat **12** and secured to the under surface thereof in any suitable manner. The bight portion or horizontal cross portion **20** of each arm rest is thus positioned above the seat **12** to allow a table or tray **22** to be attached thereto and still leave room below for the lap of the user.

The table or tray **22** comprises an elongated rectangular shaped board **24**, of wood, plastic or other suitable material. Both top and bottom surfaces of the board are flat and smooth.

In accordance with the present invention, the top surface of the board **24** centrally thereof is formed with a transverse shallow recess **26** intersecting both long sides of the body of the board. A panel **28** of the same shape as the recess **26** equal in thickness to the depth of the recess is hingedly connected at one end to the one long edge of the body of the board **24** by hinges **30, 30**. The recess at its hinged end is formed with a countersunk recess **32** extending from the hinged end of the recess to a point remote from the other long edge of the body of the board. A latching arm **34** is connected at one end by a hinge **36** to the inner surface of the board **28** remote from its free end, the other end of the arm **34** being cut to form a pointed end edge **38**. The length of the arm **38** is equal to the length of the countersunk recess **32**. When the panel **28** is in closed position, the top surface thereof is flush with the top surface of the board **24** and the arm **34** fits in the countersunk recess **32**.

The invention contemplates means for supporting drinking glasses and the like, said means comprising round shallow round recesses **40** in the board **24**, on both sides of the central recess **26** adjacent the ends of the board, a drinking glass being indicated at **42**.

Supporting and attaching leg assemblies indicated generally at **46** (see FIG. 5) are carried at the ends of the board **24** on the bottom surface thereof for detachably mounting the board on the arm rests **18** of the chair. The bight portions **20** of the arm rests are provided each with a pair of spaced holes **48, 48** in the outer side surface thereof. Each assembly **46** comprises a U-shaped body **48** formed of round rod stock, the end leg portions **50, 50** of the body terminating in right angularly disposed extensions **52, 52** with hooked ends **54, 54**. Each U-shaped body **48** is fixed to the under surface at its respective end by screws **56** extending through holes in the end leg portions **50**, the extensions depending from the end edge of the board with its hooked ends **54** extending inwardly. The hooked ends **54** are adapted to slip into the holes **48** in the bight portions **20** of the arm rests as best seen in FIG. 1. The board **24** is thus attached to the arm rests, the body of the board being in a horizontal position above the arm rests.

When it is desired to support a book, the panel **28** is raised and the free end of the arm **34** swung against the upright front wall of the countersunk recess **32** thereby interlocking with said wall and holding the panel in raised inclined position as shown in FIG. 1.

In FIG. 6, a modified form of supporting and attaching leg assembly **46'** is shown associated with the board **24'**, at each end thereof. The assembly **46'** comprises an elongated round rod **60** with upstanding flanges **62** at the ends thereof, the flanges being fitted in holes **64** formed in the bottom surface of the board **24'**. A bushing **66** is

sleeved around the body of the rod **60** and extends substantially the length of the rod. A U-shaped bracket **68** has its leg portions **70, 70** fitted in holes in the bushing whereby the bracket depends from the bushing. The bight portion **72** of the bracket carries spaced pins **74, 74** for insertion into the spaced holes **48'** in the bight portion **20'** of the arm rest **18'** fixed on the chair seat **12'**. A spiral spring **76** is sleeved around the bushing **66** with one end impinging against the under surface of the board **24'** and its other end curled around one of the leg portions **70** for urging the U-shaped bracket **68** inwardly against the bottom surface of the board **24'** as indicated by the arrow **78**.

Another modified form of supporting and attaching leg assembly **46''** is shown in FIGS. 7 and 8. This assembly **46''** differs from the leg assembly **46** of FIG. 1 in that the extensions **52''** are formed in two parts or sections, the adjacent ends of the parts or sections being connected or joined by a coil spring **80**, the convolutions of one end of which are sleeved around the top part or section and the convolutions of the other end around the bottom part or section of the extension, whereby when the hooked ends **54'** of the extensions are inserted into the holes in the bight portion **20''** of the arm rest, the board **24''** may vibrate horizontally for any desired purpose.

FIG. 9 illustrates yet another modified form of supporting and attaching leg assembly **46*a***. This assembly **46*a*** comprises a wooden panel **84** hinged to each end of the board **24*a*** by means of a hinge structure **86**. A coil spring **88** sleeved around the knuckle of the hinge structure centrally thereof has one end impinging against the end edge of the body of the board **24*a*** and its other end impinging against the body of the panel **84** whereby the panel is urged inwardly underneath the end of the board in the direction of the arrow **86** into a recess **88** formed in the bottom surface of the board. The panel carries spaced pins **90** adapted to be inserted into spaced holes **92** formed in the base of the recess **88** in order to collapse the board.

When so collapsed, the panel **84** is flush with the bottom surface of the body of the board. When the panel **84** is extended as shown, the pins **90** are adapted to be inserted into holes in the bight portion of the arm rest for attaching the board to the chair.

Referring now to the modified form of table or tray **22*x*** shown in FIGS. 10 to 13, inclusive, adapted to be removably mounted on the arm rests **18*x***. The table or tray **22*x*** is sectional and adjustable in length comprising an elongated rectangular shaped board **24*x*** and provided with a flange **102**, L-shaped in cross section, around the top thereof adapted to receive the adjacent end of the board **24*x***. The board **24*x*** is somewhat similar in construction to the board **24** having a shallow recess **26*x*** in the top surface thereof at its center. A two-ply panel **28*x*** of the same shape as the recess **26*x*** equal in thickness to the depth of the recess is hingedly connected at one end to the body of the board by hinged loops **30*x*, 30*x*** extending through slots **104, 104** formed in the bottom surface of the body of the board. A latching arm **34*x*** is connected to one end by a hinge **36*x*** to the inner surface of the board **28*x*** remote from its free end, the other end of the arm **34*x*** being formed in the body of the board. The length of the arm **34*x*** is equal to the length of the slot **108**. A curved arm **110** projects from the inner edge of the panel **28*x*** extending into the slot **108**. When the panel **28*x*** is in closed position, the top surface thereof is flush with the top surface of the board **24*x*** and the arm **34*x*** fits in the slot **108**. Shallow round recesses **40*x*** are formed in the top surface of the board **24*x*** on both sides of the central recess **26*x*** for supporting drinking glasses (not shown).

Supporting and attaching leg assemblies **46*x*** are carried at the ends of the board **24*x*** on the bottom surface thereof for detachably mounting the board on the arm rests **18*x*** of the chair. Each assembly comprises an L-shaped bracket **48*x*** with a slot **112** formed in one leg **114** thereof. An inverted substantially U-shaped clamp **116** is fastened to each leg **114** by means of a flanged externally and internally threaded bushing **118** extending through the slot **112** and a nut **120** on the external threaded surface of the bushing. A washer **124** is interposed between the nut and leg **114**. An elongated screw **126** with a wing **128** on one end thereof and a disc **130** on the other end extends through the bushing and coacts with the bushing for securing the arm rest between the disc **130** and clamp **116**. The board **24*x*** is thus attached to the arm rests **18*x***, the body of the board being disposed in a horizontal position above the arm rests **18*x***. The sections **24*x*** and **100** of the body of the board may be moved toward and away from each other to accommodate the table to the distance between the arm rests **18*x***.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and that various changes and modifications may be made within the scope of the invention.

What is claimed is:

1. An armchair table for mounting on the perforated armrests of a chair, said armchair table consisting of an elongated rectangular shaped board, the body of said board having a main central recess and an auxiliary countersunk recess in the upper surface thereof, a panel hinged at one end to a long side of the body of the board opposite said main recess for supporting a book when elevated, an arm swingingly carried by the panel adjacent its free end for interlocking with the wall of the countersunk recess to hold the panel in elevated position, and supporting and attaching leg assemblies depending and coacting with the perforations in the armrests from the body of the board for supporting the board and for removably attaching the board to the armrests of the chair, the supporting and attaching leg assemblies each comprising a U-shaped rod, the leg portions of the rod terminating in right angularly disposed extensions with the hooked ends, and means for securing the leg portions to the board whereby the extensions depend from the board so that the hooked ends are adapted to be inserted into the perforations in the armrests.

2. An armchair table for mounting on the perforated armrests of a chair as defined in claim **1** wherein the body of the board is formed with shallow round recesses in the top surface thereof for receiving and supporting drinking glasses and the like.

3. An armchair table for mounting on the perforated armrests of a chair as defined in claim **2** where in the panel is adapted to fit in the main recesses when the panel is closed, the swinging arm is adapted to fit in the countersunk recess when the panel is closed and the swinging arm has a pointed free end edge to facilitate interlock with the wall of the auxiliary countersunk recess.

4. An armchair table for mounting on the perforated armrests of a chair as defined in claim **1** wherein the right angularly disposed extensions are formed of an upper part and a lower part with a coil spring joining the adjacent ends of the parts whereby the board is supported for horizontal vibration.

5. An armchair table for mounting on the perforated armrests of a chair as defined in claim **1** wherein the supporting and attaching leg assemblies each comprises a panel hingedly mounted at one end to the adjacent end of the board, a pair of spaced pins extending radially from the free end of the panel, the pins on the panels of the ends of the board extending in opposed relation, the board at the ends thereof being formed with recesses in the under surface thereof, the bases of said recesses having spaced holes therein, and a spring associated with each hinge structure, said spring having one end impinging against the adjacent end edge of the board, the other end impinging against the panel for urging the panel inwardly in collapsed condition against

the board, the pins adapted to fit in the holes in the recesses in the undersurface of the board.

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JAMES T. McCALL, Primary Examiner

U.S. Cl. X.R.

248—456