

[54] ARM FOR A CHAIR

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[56]

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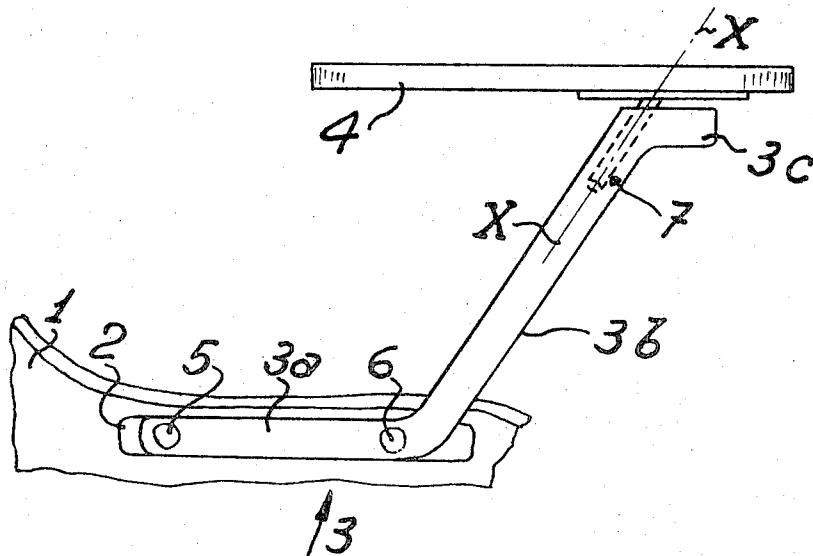
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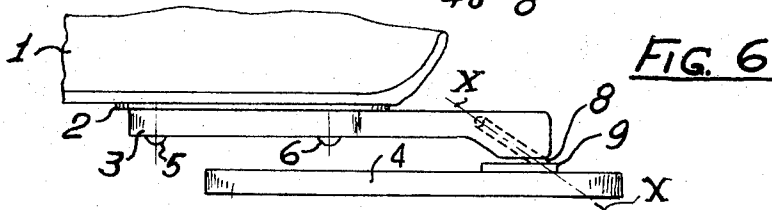
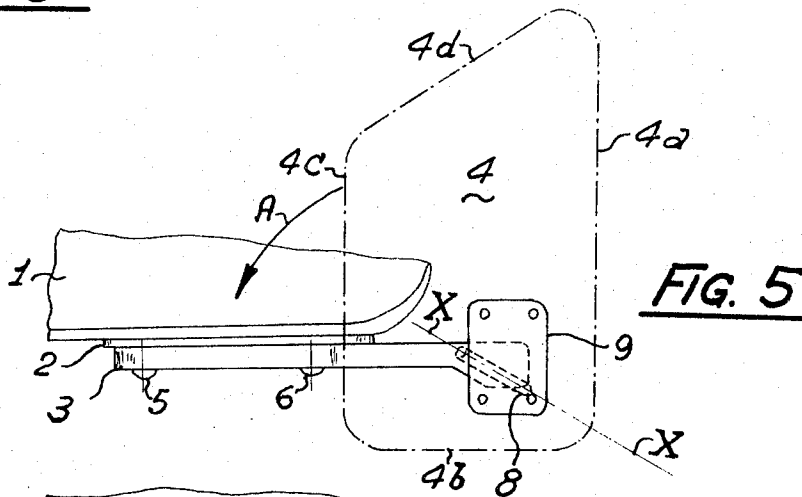
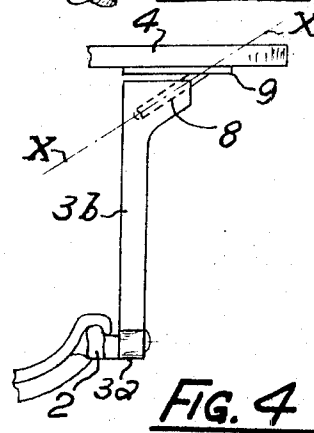
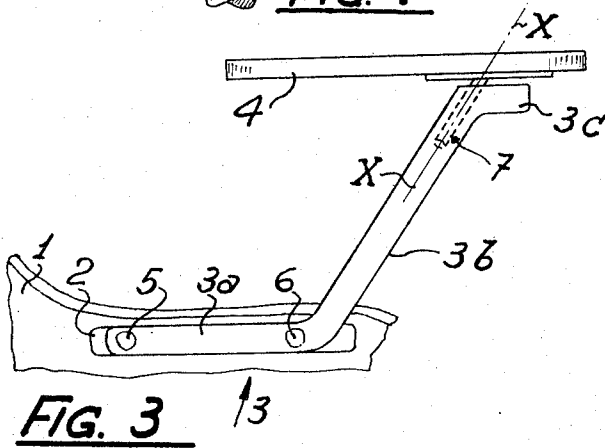
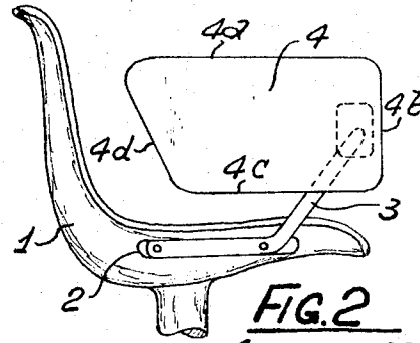
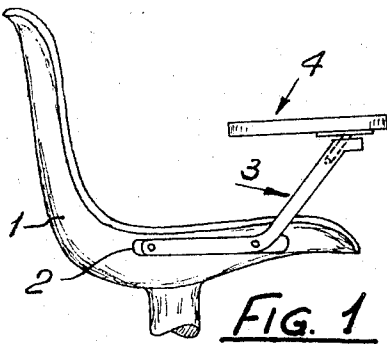
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ABSTRACT

The invention disclosed relates to a new improved arm disposed for supporting a working surface along one side of a chair.

2 Claims, 6 Drawing Figures





# 1

## ARM FOR A CHAIR

The present invention concerns an arm to be applied to the side of chairs, easy chairs and the like, for supporting a small writing table by means of a pivot joint inclined forwardly, upwardly and outwardly so that, by a single rotation about said pivot, the table executes a double movement passing from the vertical position at the side of the chair to a horizontal position at the front of and above the seat and also rotating through 90° in the plane in which it is contained to permit writing on the table itself.

The two limiting positions assumed by the table correspond to the stable positions of the inclined pivot as stated, in the actual seat of the arm, the said rotation of which is sufficient to locate the table in a stable horizontal or vehicle position, both during use and when not in use.

The pivot arm inclined according to the present invention minimizes the disadvantages of conventional writing tables which are usually supported by hinges having a horizontal axis and by pairs of vertical and horizontal hinges which may require means for locking in position or represent a considerable obstacle when in a position of non-use.

According to the present invention, there is provided an arm to be applied to the side of a chair or the like, for supporting a small writing table, in which the upper end of the arm has a bore with an axis inclined forwardly, upwardly and outwardly, said bore containing a rotatable pivot connectable to the table, the axis of which assumes the same inclines as the bore so that, by rotation outwardly and downwardly, the table passes from the horizontal working position to a substantially vertical position of non-use.

The invention will be further illustrated, by way of example, with reference to the accompanying drawings in which:

FIG. 1 is a side plan view of a chair with portions removed in which the arm of the present invention is mounted with the table in the horizontal position of use;

FIG. 2 is a similar view to that of FIG. 1 illustrating the chair and arm with the table in the position of non-use;

FIG. 3 is a partial side plan view relatively enlarged and showing the arm with the table in horizontal use position;

FIG. 4 is a partial rear plan view relatively enlarged and showing the arm with table in horizontal use position;

FIG. 5 is a partial top plan view relatively enlarged and showing the arm with the table in phantom horizontal use position; and

FIG. 6 is a partial top plan view relatively enlarged and showing the arm with the table in rotated non-use position.

FIGS. 1 and 2 show a chair 1 having side means for connections 2 to which the arm 3 is applied, provided at its upper end with a writing table 4 which may be rotated from the position of use, horizontal, as shown in FIG. 1, to the side position of non-use, as shown in FIG. 2.

FIG. 3, 4 and 5, show on a magnified scale the arm alone with the table according to the invention and, to a limited extent, the area for connection to the chair, easy chair or the like.

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With reference to said FIGS., the arm according to the present invention is formed by a substantially horizontal portion 3a in which are formed bores 5 and 6 for the application of the means for securing to the connection 2, and a forwardly inclined arm 3b terminating in an end 3c. This end is provided with a bore 7 the axis X—X of which is inclined forwardly, as shown in FIG. 3, upwardly as shown in FIG. 4 and outwardly on the right of the chair, as shown in FIG. 5. Rotatable within this bore is a pivot 8 connected to a plate 9 to which the table 4 is strongly secured. The position of said pivot 8 relatively to the plate 9 is shown in said FIGS., the axis of said pivot still being the axis X—X of the bore 7 when considering the plate 9 according to the three views shown in FIG. 3, vertical at the side in FIGS. 4, vertical on the left and in FIG. 5, from above, the pivot 8 is provided with the same inclines of the axis X—X relatively to the said three planes.

The plate 9 is preferably arranged so as to be parallel with its own sides at the sides 4a, 4b and 4c of the table 4.

The said table 4 has a side 4d inclined relatively to the other three, to permit writing with a sheet of paper at an incline as usual.

In order to pass from the position of use to that of non-use it is only necessary to rotate the table 4 by its own pivot 8 in the respective bore 7 according to a rotation in space, indicated briefly by the arrow A, that is to say, outwardly and downwardly. By such a movement the table is brought from the working position shown in FIG. 5 to the position of non-use shown in FIG. 6, in which it is disposed substantially in a plane turned through 90° relatively to the preceding plane and subsequently rotated through 90° relatively to the axis of the chair in its own plane, whereby the inclined side 4d of the table which was on the left in the horizontal working position (FIG. 5) is disposed, in this position of non-use, directly towards the rear, assuming a position substantially parallel to that of the back as may be seen from FIG. 2.

By locating the connecting plate 9 near the sides 4a, 4b, it is also possible for the side 4a, which becomes the upper side when the table is in the position of non-use, to be at a sufficiently low level not to constitute an obstacle to the arm of the person using the chair.

The values of the inclines of the axis X—X relatively to the vertical, horizontal and lateral planes may be established on the basis of the total value of the rotation, i.e., through the initial position to the final position, assumed by the table. By way of example, it is possible to indicate, by an additional rotation through planes amounting to approximately 90° altogether, that the axis X—X may assume an angle of approximately 32° upwardly, approximately 43° outwardly and approximately 33° forwardly.

It should be understood that the details of construction of the arm, the support, pivot, table and other members may be varied and adapted as required, without departing from the scope of the present invention.

What we claim is:

1. A chair mountable arm and writing table which comprises in combination, an arm having means for securing to the side of a chair, said arm having a forwardly inclined body member terminating in an end portion, said end portion having a bore the axis of which is inclined forwardly, upwardly and outwardly

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relative to a horizontal plane, a rotatable cylindrically pivot disposed within the bore, one end of said pivot being connected to a writing table, said writing table being pivotally rotatable backwardly, outwardly and downwardly from a horizontal writing position to a vertical non-use position.

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2. The chair mountable arm and writing table of Claim 1 wherein the axis of the bore is approximately 32° upwardly, 33° forwardly and approximately 43° outwardly.

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