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Ohta

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[54] **DENTAL CHAIR**

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[51] **Int. Cl.**.....**A47c 7/36,** A47c 7/02

[58] **Field of Search**.....297/391, 396, 411, 297/417, 418, 457, 458

[56] **References Cited**

UNITED STATES PATENTS

3,172,699 3/1965 Naughton.....297/417 X

3,115,366 12/1963 Glass.....297/417

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[57] **ABSTRACT**

A dental chair comprising a plate-shaped back, both side parts of which corresponding to the portions below both shoulders of the patient are curved inwards, so that both upper portions of his arms and elbows may be supported in comfort by the said inwardly curved portions on both sides of the back.

1 Claim, 2 Drawing Figures

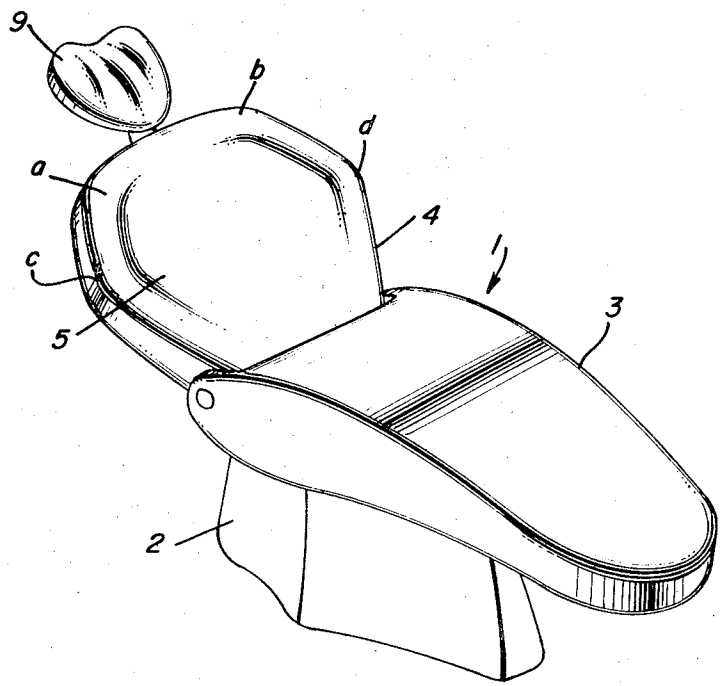


FIG. 1

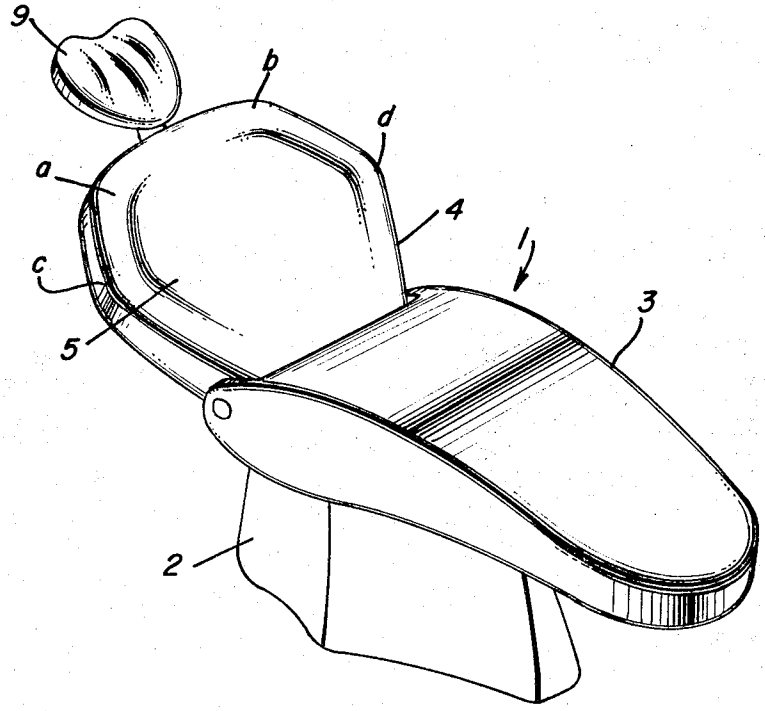
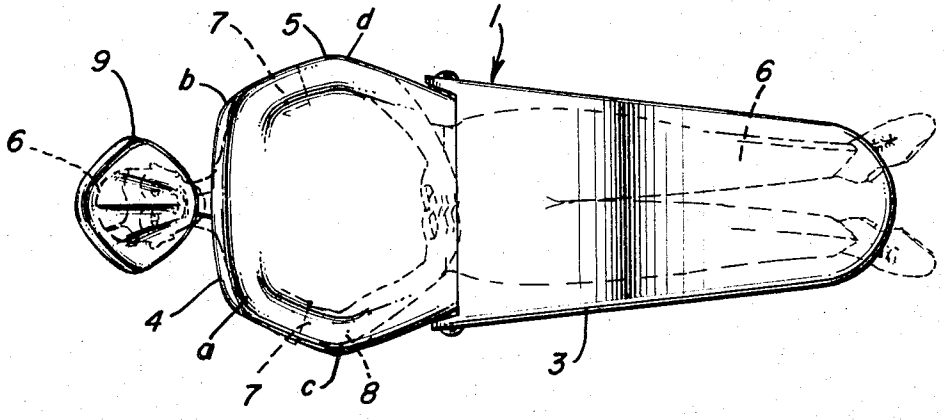


FIG. 2



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DENTAL CHAIR

The present invention relates to the dental chair characterized by its comprising a plate-shaped back, which is molded into a single body together with the patient's elbow rests which are made integrally with the main portion of the back by bending both sides of the said back inwardly, especially those parts below the both shoulders of the patient, so that the upper parts of both arms and elbows of the patient may be supported in comfort by the above-mentioned inwardly bent parts with the result that the patient can easily get on and off the dental chair, while the dentist, who treats the patient from behind him, can maintain a proper posture when fixing his teeth. As a result, the dentist does not feel a bit the worse during his treatment which requires scrupulous care and observation, because of his keeping a well balanced posture.

On the contrary, the elbow rests of the conventional dental chair are provided on both sides of a seat body for the patient and, whenever he gets on and off the said seat, the projecting elbow rest becomes a barrier to his quick movement, or it will give the patient a great deal of inconvenience in the event of his being transferred from a couch to the dental chair. Originally such elbow rests were arranged in that fashion in order to give the patient a sense of security during medical treatment. Far from the said object, however, it always makes him nervous, and the dentist finds it difficult to treat him more often than not, entailing a waste of time into the bargain. Furthermore, the projecting elbow rests become obstacles to the dentist's treatment posture when assumed from the front side of the patient, leading inevitably to the dentist's forced and inappropriate posture.

The main object of the present invention therefore is to eliminate all such shortcomings of the conventional dental chair completely.

For a more detailed description of the invention, reference will now be made to the accompanying drawings, wherein:

FIG. 1 shows a perspective view of the dental chair according to the present invention.

FIG. 2 is a top view of the dental chair with the patient (shown in dotted lines) lying thereupon.

In these figures, the numeral 1 indicates the dental chair, while 2 represents its base and 3 the seat for the patient, to which the back portion 4 is pivotally attached for up and down swinging motion. As shown in FIG. 1, the back portion 5 is curved inwardly, starting from the lower side parts *c* and *d* of the shoulder parts *a* and *b* of the said back portion 5. As shown, the dental chair 1 is provided with the elbow rests which support both elbows 8 of the patient 6 so as to securely support both upper arms 7 of the patient 6 and to allow him to easily get on and off the seat 3. The head rest 9 for the patient 6 is made to move up-and-down against the back portion 4.

Thus the back portion 4 of the dental chair 1 is made to form a single body together with the elbow rests and, when the patient 6 lies against the back portion 4 in comfort or undergoes treatment while reposing upon it, he is allowed to cross both hands, as he usually desires, so as to lightly support both his upper arms 7 and elbows 8 upon the inwardly curved sides of the back portion 4, so that he may undergo treatment with a sense of assurance. Besides, by the use of the dental chair 1 which is provided with the back portion 4, as abovementioned, the dentist can also maintain his natural treating posture entailing the least farigue. Thus he can easily perform various operations upon his patients.

While preferred embodiments have been described above in detail, it will be understood that numerous modifications might be resorted to without departing from the scope of the invention as defined in the claim.

I claim:

1. A dental chair comprising a generally horizontal seat portion and a back portion pivotally attached to the seat portion for up and down swinging motion, said back portion being generally plate-shaped and including a head rest projecting above the center thereof, the width of said back portion at the top corresponding to the width of the shoulders and upper arms of a patient and diverging outwardly and dowardly toward a location corresponding to the elbows of a patient and thereafter converging downwardly and inwardly to support the arms and elbows of a patient when in repose, the upper margins and both side margins of the plate-shaped back portion being curved inwardly in cross-section to position the arms and elbows of a patient in normal folded positions with respect to the remainder of the patient's body while not obstructing the patient's movements when entering or leaving the chair.

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