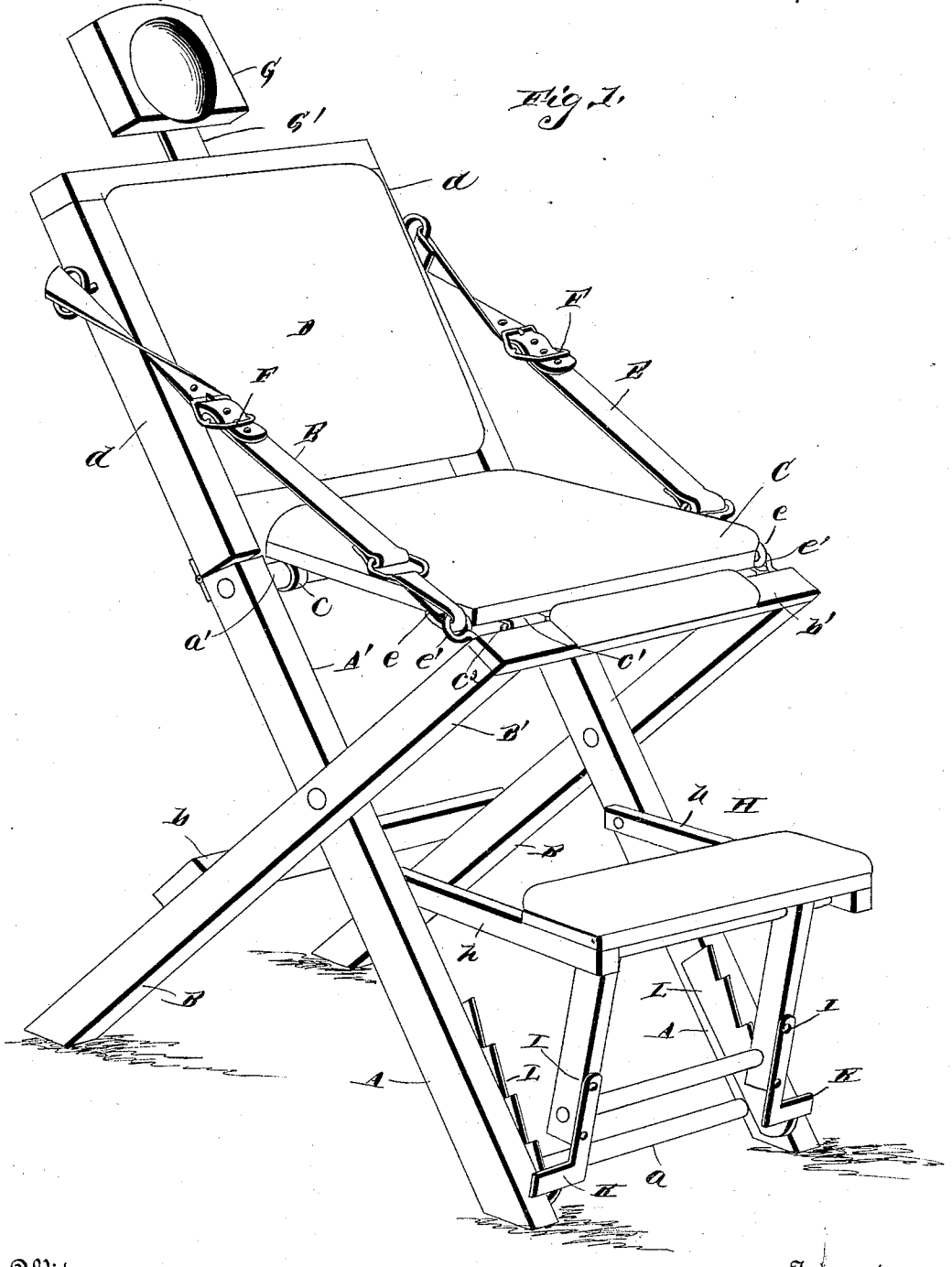
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Z. B. MOORMAN.

DENTAL CHAIR.

No. 396,828. Patented Jan. 29, 1889.

Fig. 1.



Witnesses,

C. E. Doyle.

Inventor,

Z. B. Moorman

By his Attorneys

A. Crowell & Co

N. PETERS. Photo-Lithographer. Washington, D. C.

(No Model.) 2 Sheets—Sheet 2.

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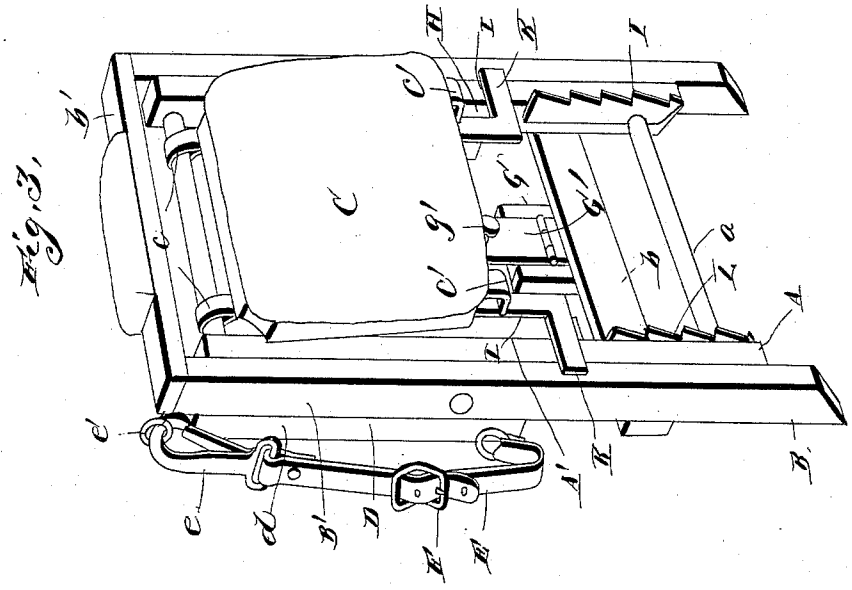
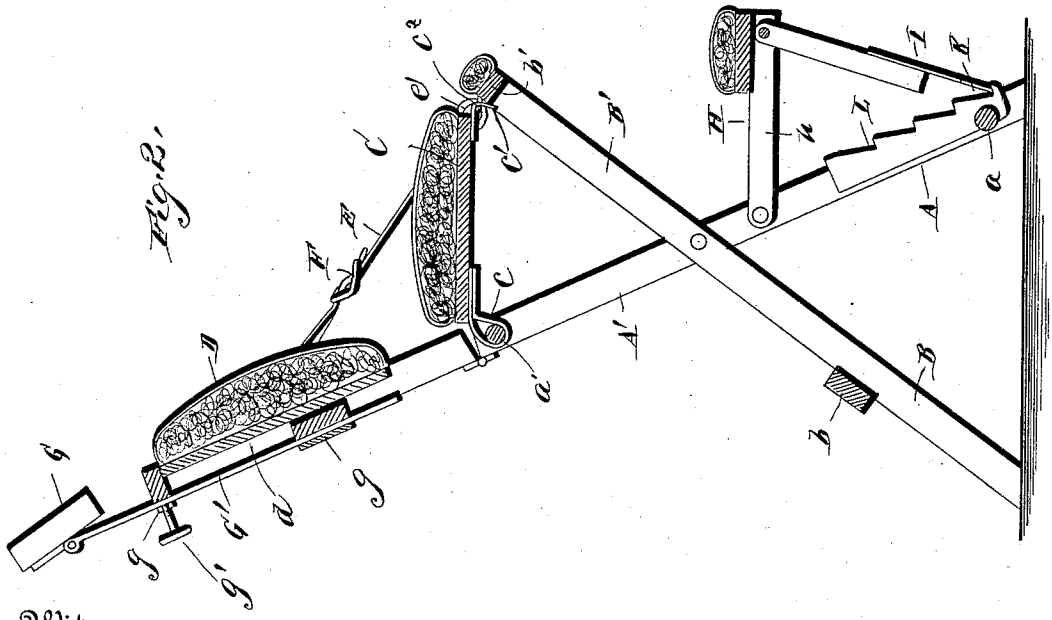


Fig. 2.



Witnesses
C. B. Taylor
C. E. Doyle.

Inventor,
Z. B. Moorman
By his Attorneys
C. A. Snow & Co

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ZACH B. MOORMAN, OF HONEY GROVE, TEXAS.

DENTAL CHAIR.

SPECIFICATION forming part of Letters Patent No. 396,828, dated January 29, 1889.

Application filed June 21, 1888. Serial No. 277,705. (No model.)

To all whom it may concern:

Be it known that I, ZACH B. MOORMAN, a citizen of the United States, residing at Honey Grove, in the county of Fannin and State of Texas, have invented new and useful Improvements in Dental Chairs, of which the following is a specification.

My invention relates to improvements in dental chairs, having for its object a simple and convenient chair which may be folded to render it portable, so that it may be carried from place to place by the dentist when his practice is away from his office.

The invention consists in a certain novel construction and arrangement of devices, fully set forth hereinafter in connection with the accompanying drawings, wherein—

Figure 1 is a perspective view of the chair in its operative position. Fig. 2 is a central vertical sectional view of the same. Fig. 3 is a view of the chair in its folded position.

Referring to the drawings, A A and B B represent, respectively, the front and rear legs of the chair, which are pivoted together at their upper ends and are connected in pairs at their lower ends by cross-bars *a* and *b*; and A′ A′ and B′ B′ represent upward extensions of the said legs, which are connected together at their upper ends by the cross-bars *a′* and *b′*.

The seat C is provided at its rear edge with the downwardly-extending loops *c c*, which are mounted on the cross-bar *a′*, and it is provided at its front edge with the hooks *c′ c′*, which are engaged in staples or keepers c^2 c^2 on the inner or rear side of the cross-bar *b′*.

The back D of the chair is provided with the side bars, *d d*, which are hinged at their lower ends to the upper ends of the extensions A′ A′, respectively, whereby the abutting ends of the said bars and extensions prevent the back from swinging forward beyond the vertical position, but allow it to be folded backwardly, as will be clearly seen by reference to the drawings.

E E represent adjustable and flexible side arms, which are connected at their upper ends to the side bars, *d d*, near their upper ends, and are provided at their lower ends with the snap-hooks *e e*, adapted to engage suitable loops or keepers, *e′ e′*, on the upper ends of the extensions B′ B′. The said side arms are preferably straps, in which case they are provided at intermediate points with the buckles F F, whereby they may be lengthened or shortened at will to produce any desired inclination of the back of the chair.

G represents the head-rest, which is pivoted to the upper end of the vertically-adjustable bar G′, which slides in suitable guides, *g g*, on the rear side of the back, and is locked in the desired position by the thumb-screws *g′*. The head-rest is mounted loosely on the upper end of the adjusting-bar to enable it to adjust itself to the position of the head of the patient.

The foot-rest H is provided with the rearwardly-extending arms *h h*, which are pivoted at their ends to the legs A A, below their pivots; and I I represent adjusting-arms, which are pivoted to the lower side of the foot-rest and are provided at their lower ends with the lateral studs or projections K, engaging the ratchet-teeth L on the front sides of the legs A A, whereby the said foot-rest may be arranged at any desired elevation.

To fold the chair, the foot-rest is raised and its pivoted arms *h h* are folded between the legs A A, and the bars I I are folded between the arms *h h*, the seat is released at its front edge and allowed to drop in front of the foot-rest, and the upper ends of the extension A′ B′ are drawn together, thereby allowing the back to swing rearward and fold over the rear side of the foot-rest. In this way the chair is folded into very compact shape, so that it may be readily carried in the hand, and when desired for use it may be quickly and readily adjusted.

Having thus described the invention, I claim—

1. In a dental chair, the combination of the legs A and B, pivoted together and provided with the extensions A′ and B′, which are connected at their upper ends by the cross-bars *a′* and *b′*, the seat pivotally connected to the cross-bar *a′* and engaged with the cross-bar *b′*, the foot-rest provided with arms *h h*, pivoted to the inner sides of the legs A A, and having legs I I engaging ratchets on the said legs, the backwardly-folding back D, pivoted to the upper ends of the extensions A′, and the flexible and extensible arms E E, con-

nected at their ends, respectively, to the back and the upper ends of the extensions B′, substantially as specified.

2. In a dental chair, the legs A and B, pivoted together, the seat, and the back, in combination with the foot-rest having the arms *h h*, pivoted to the inner sides of the legs A, the swinging arms I, mounted on the foot-rest and provided at their lower ends with the lateral studs or projections K, adapted to engage ratchets on the legs A to hold the foot-rest at the desired inclination, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ZACH B. MOORMAN.

Witnesses:
W. H. LEMONS,
C. W. KINKEAD.