Apr. 17, 1923.

1,452,477

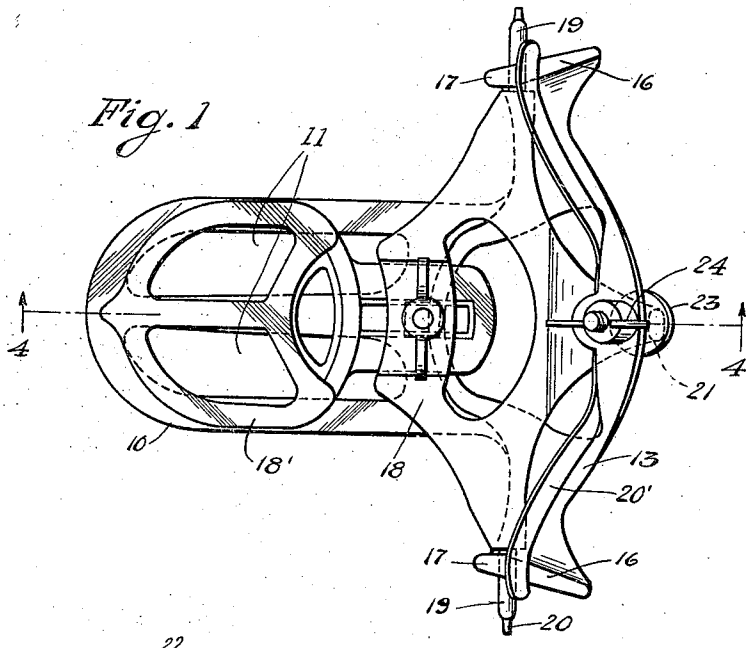
E. L. CHOTT

DENTAL ARTICULATOR

Filed May 29, 1922

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Fig. 1



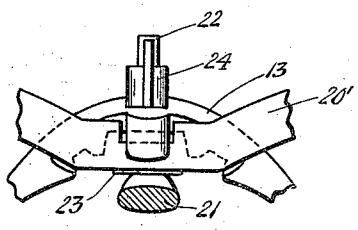


Fig. 3

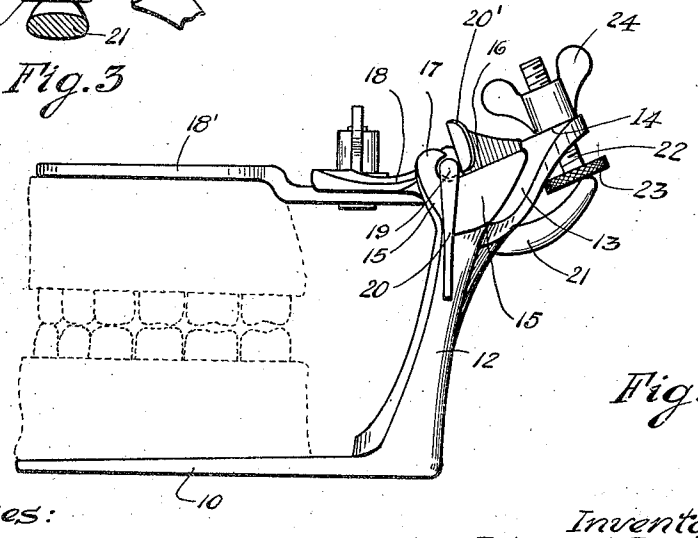


Fig. 2

Witnesses:
W. Schmellkamp
U. S. Wedman

Inventor
Edward L. Chott
By Joshua R. H. Cobb.
His Attorney

Apr. 17, 1923.

E. L. CHOTT

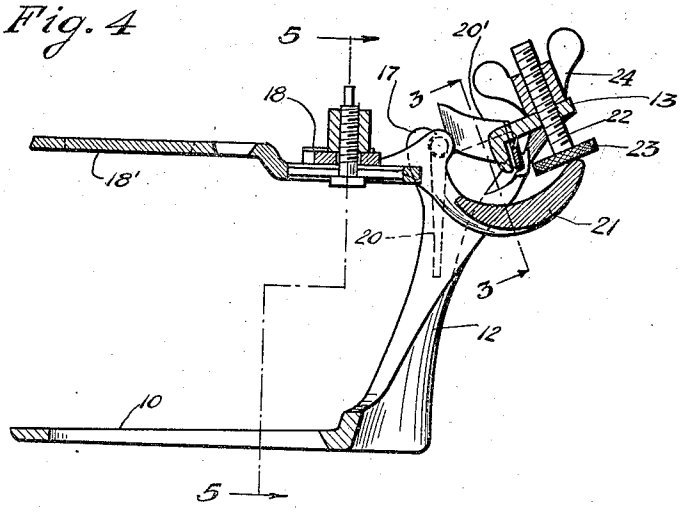
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DENTAL ARTICULATOR

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2 Sheets-Sheet 2

Fig. 4



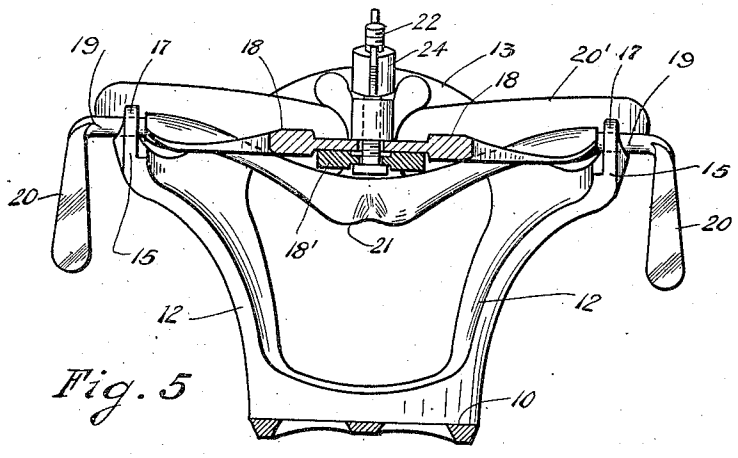


Fig. 5

Witnesses:
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Inventor
Edward L. Chott
By Joshua R. H. Potts
His Attorney

Patented Apr. 17, 1923.

1,452,477

UNITED STATES PATENT OFFICE.

EDWARD L. CHOTT, OF CHICAGO, ILLINOIS.

DENTAL ARTICULATOR.

Application filed May 29, 1922. Serial No. 564,449.

To all whom it may concern:

Be it known that I, EDWARD L. CHOTT, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Dental Articulators, of which the following is a specification.

This invention relates to dental articulators, and has for its object the provision of a device of this character comprising frames pivotally connected together so as to be capable of lateral and vertical movement with respect to each other.

Another object of the invention is to provide adjustable means for regulating clearance between the frames, and to guide same during lateral movement thereof.

Still another object of the invention is to provide means for maintaining said guiding and regulating means in close contact during lateral movement of the frames with respect to each other.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1, is a top plan view of the invention,

Fig. 2, is a side elevation of the invention,

Fig. 3, is a detail view partly in section on line 3—3 of Fig. 4,

Fig. 4, is a section on line 4—4 of Fig. 1,

Fig. 5, is a sectional view partly in elevation on line 5—5 of Fig. 4.

The invention comprises a lower frame 10 having apertures 11 therein for the purpose of affixing a cast of a lower jaw thereto. The frame 10 is provided with upright pieces 12, such pieces being preferably connected adjacent their upper ends by means of a cross piece 13, which cross piece is preferably upwardly and outwardly curved, as shown, the portion thereof intermediate its ends preferably being inclined as shown at 14. The uprights 12 preferably have broadened extremities 15, which are provided with inclined depressions 16 substantially in a plane parallel to the inclined portion 14 of the cross piece 13, the inner ends of the depressions 16 being formed into hooks 17. The various features of the extremities 15 are similar, and are designated by similar reference numerals.

A frame 18, preferably having an adjustable extension 18′ thereon, is pivotally mounted on the extremities 15 by means of members 19, which are provided with depending levers 20 as shown, the members 19 resting in the inclined depressions 16, and being detachably held therein by means of a spring 20′, preferably secured to the cross piece 13, in such manner that the ends thereof rest against the members 19. The frame 18 is also provided with an extension 21 which is adapted to engage an adjustable guide member 22 tapped through the inclined portion 14 of the cross piece 13, the member 22 having a head 23 on its lower end upon which the extension 21 engages. The guide member 22 is also provided with a lock nut 24, if desired.

Thus it will be seen that by adjusting the member 22 clearance between the frames 10 and 18 can be nicely regulated, and in order to impart lateral and vertical movement to the frame 18, one of the members 19 is moved along the inclined surface of the related depression 16 against the pressure of the spring 20′ by means of the lever 20, the extension 21 sliding on the head 23 of the member 22, the spring 25 causing the frame 18 to return to inoperative position when pressure is relieved from the lever 20. It will be observed that the lever 20 provides means for holding the extension 21 in constant engagement with the end 23 of the member 22, during lateral movement of the frame 18, thereby preventing accidental pivotal movement of the frame 18.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A dental articulator comprising a base frame having uprights thereon; there being inclined depressions in said uprights; a cross piece connecting said uprights and having a

portion thereof intermediate its ends inclined in a plane substantially parallel with the incline of said depressions; adjustable guide means tapped through said inclined portion; a second frame having members pivotally and slidably mounted in said depressions; an extension on said second frame adapted to slidably engage said adjustable guide means during lateral movement of said second frame in said depressions; and levers on said members for operating said second frame and adapted to hold said extension in close engagement with said adjustable guide means during lateral movement of said second frame.

2. A dental articulator comprising a base member having uprights thereon, there being inclined depressions in said uprights; a cross piece connecting said uprights and having a portion intermediate the ends thereof being inclined in a plane substantially parallel to said inclined depressions; a screw tapped through said inclined portion having its head disposed therebeneath; a second frame having members mounted in said depressions for pivotal and lateral movement therein; an extension on said second frame adapted to slidably engage the head of said screw; and levers on said members adapted to operate said second frame and to hold said extension in close engagement with the head of said screw during lateral movement of said second frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD L. CHOTT.

Witnesses:

FREDA C. APPLETON,

MARGARET AUER.