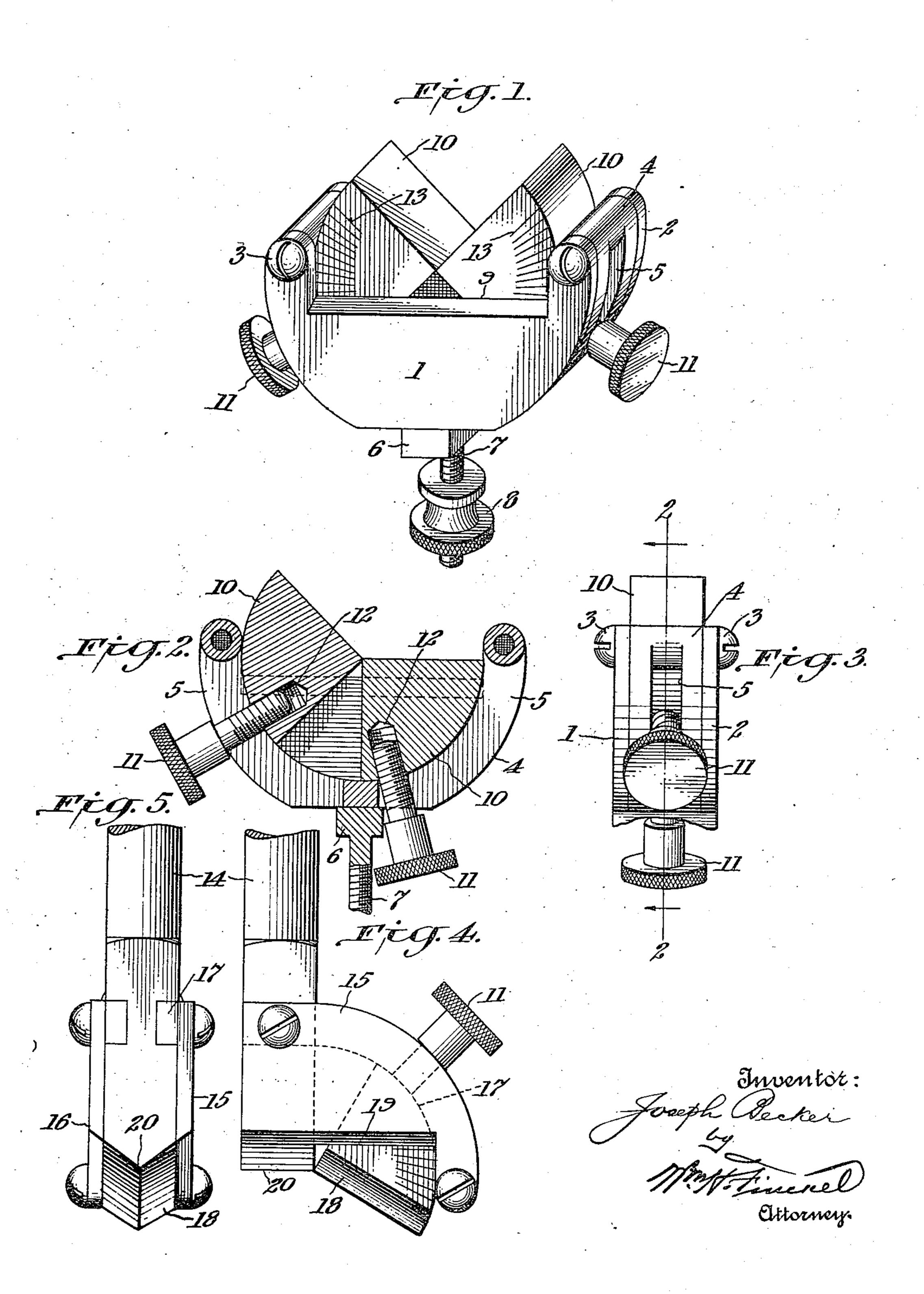
## J. BECKER

## ATTACHMENT FOR DENTAL ARTICULATORS

Filed June 1, 1922

2 Sheets-Sheet 1

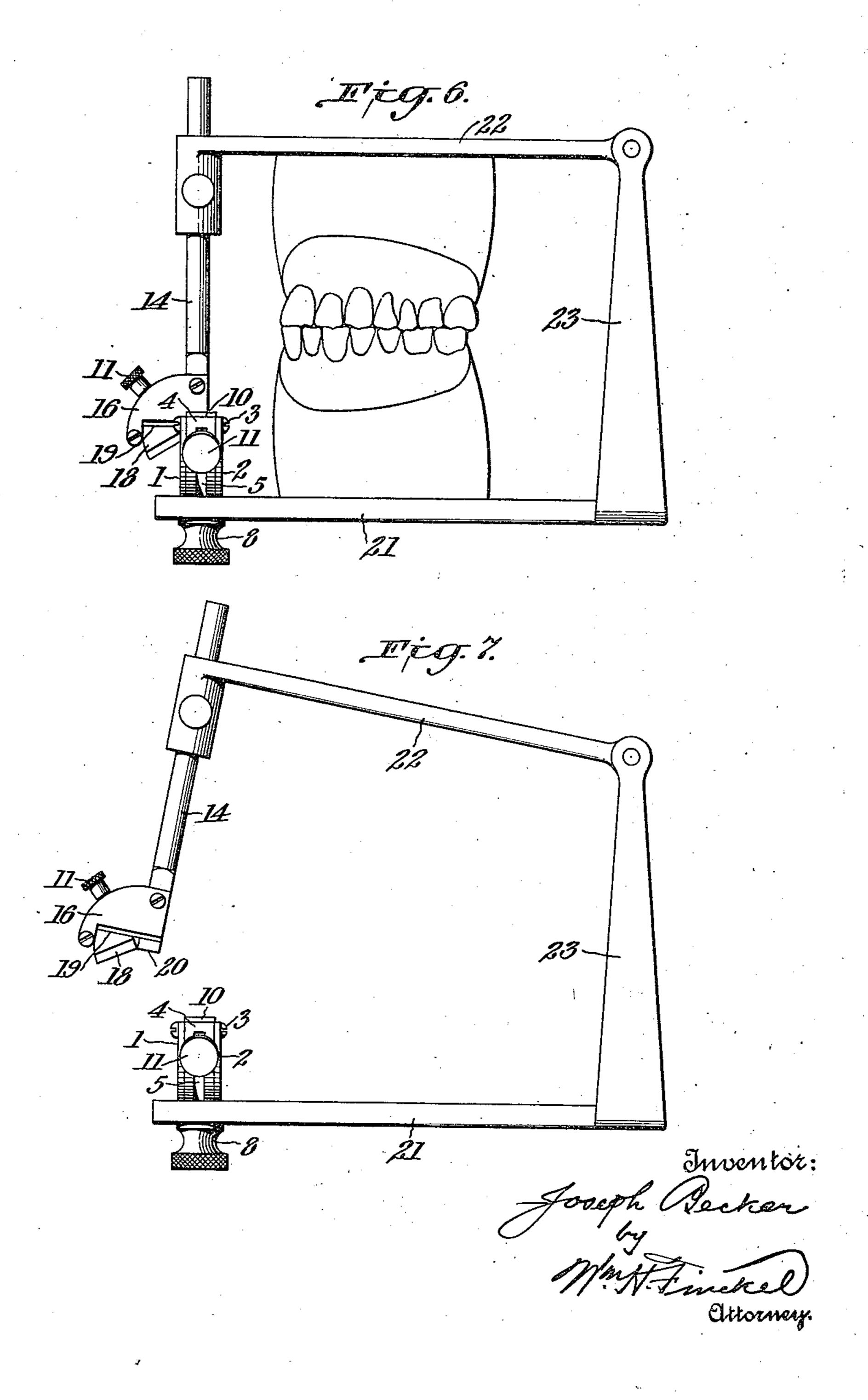


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ATTACHMENT FOR DENTAL ARTICULATORS

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2 Sheets-Sheet 2



## UNITED STATES PATENT OFFICE.

JOSEPH BECKER, OF WEST HOBOKEN, NEW JERSEY.

ATTACHMENT FOR DENTAL ARTICULATORS.

Application filed June 1, 1922. Serial No. 565,114.

scription.

usual or approved dental articulator, and edge 9 for cooperation with the adjustable while it is illustrated herein for use upon sector or sectors next described. 20 is to be understood that the invention is not of a quadrant of a cylinder, having their plained and variations thereof, may be used ing contact therewith and confined within 25 and makes the articulator adjustable to the side plates 1 and 2 with their radial faces 30 my invention these movements can be dupli-screws either sector may be adjusted indecated.

mounted in a segmental holder and movable therein as the dental operation requires and capable of being fixed in the adjusted position, and in the case of a device using two such sectors, each sector is adjustable inde-

40 now to explain and finally claim.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a perspective view showing the 45 duplex attachment; Fig. 2 is a longitudinal the sides 15 and 16, and the longitudinally being on an enlarged scale. Fig. 6 is a side with the straight edge 19 as before, except.

To all whom it may concern:

Be it known that I, Joseph Becker, a or guideway comprises a pair of side plates citizen of the United States, residing at 1 and 2, fastened, as by screws 3, to an West Hoboken, in the county of Hudson arcuate rim-piece 4 which is provided with 60 5 and State of New Jersey, have invented a the longitudinal slots 5 oppositely arranged. certain new and useful Improvement in At- This rim-piece may carry or have applied tachments for Dental Articulators, of which to it any suitable means for applying the atthe following is a full, clear, and exact de- tachment to an articulator, and I have herein shown one such means, same consisting 65 The object of this invention is to provide of a guide-block 6, having a depending an attachment for dental articulators, by screwthreaded stem 7 and a clamping nut 8. which it is possible to reproduce average or As already indicated the applying means individual mandibular movements for the may be varied to suit the articulator to purpose of enabling the dentist to properly which the device is to be applied.

15 occlude and articulate artificial teeth. The side plate 1 is cut away at its upper The attachment is designed for use on any part and provided with a straight sighting

a well-known construction of articulator, it The sectors 10 are alike, and in the form 75 so limited. Moreover, the attachment in apices adjacent and their circular periphone or the other of the forms herein ex- eries resting in the rim-piece 4 and in slidin several different places on an articulator. the shell formed by said rim-piece and the 80 different movements of the jaw. A large uppermost. These sectors are engaged by percentage of failures in dental plate, bridge set-screws 11 which extend through the slots and crown work is due to inability to copy 5 in the rim-piece and engage tapped holes the exact movements of the jaw, but with 12 in the sectors, so that by loosening the set- 85 pendently of the other to vary the angle of The invention consists of an adjustable inclination of its exposed radial face, and device comprising one or more sectors then fixed in any given adjustment by tightening its set-screw against the rim-piece.

The sectors may have the lines 13 to register with the side edge 9 for guidance in determining paths in the progress of the dental

work, as is well understood.

pendently of the other, as I will proceed The construction shown in detail in Figs. 95 4 and 5 shows the same principle applied to an attachment having a single adjustable sector, and which may be mounted upon a block 14 by which it may be supported in or attached to an articulator. In this case 100 section thereof, and Fig. 3 is an end eleva-slotted rim 17 are substantially halves of tion. Fig. 4 is a side elevation and Fig. 5 the corresponding parts in the previously is an end elevation of a single attachment, described attachment, and only one sector the block being broken off, all of the views 18 is used, lined as before and cooperating 105 elevation illustrating the invention as ap- ing that both side plates may be cut away plied to an articulator in use. Fig. 7 is a and beveled, as shown in Fig. 5. The end side elevation illustrating the invention as of the shell formed by the side and rim is applied to an articulator, the upper model closed by the block 14, and the near end of 110 bow being elevated. this block may be beveled to form the sight-Referring to the attachment shown in de- ing edge 20, and thus adapt the instrument for use as an incisor guide alone or in cooperation with the first described attachment. By its use it is possible to obtain a vertical adjustment of the incisor path.

5 Either or both of the attachments may be a part of or attached to an articulator. Figs. 6 and 7 show such an application of both of the attachments, the duplex attachment being applied to the lower model bow 10 21 and the single attachment being shown as applied to the upper model bow 22, and sition. these two bows operatively connected through the medium of any suitable back piece or standard herein designated 23, but 15 shown in purely conventional form.

By the use of these attachments the natural movements of individual jaws characteristic of different patients may be accurately ascertained or duplicated and the 20 dentist thus aided in performing his work skillfully. The changing of the condyle, lateral and incisor paths of the articulator may be readily effected, and any one or more of the paths may be changed without in any

25 way changing the others. As will be understood, the sectors are not

pivotally mounted in their shells, but on the contrary, they are bodily movable in their shells in order to change their adjustments.

Variations other than those described are permissible within the principle of the in-slotted arcuate rim connecting said sidevention and the claims following; and it is plates the whole constituting a shell, a sec- 85 to be expressly understood that by the use for mounted in said shell and a sector-adof the term "attachment" I mean to in- justing device projecting through and movclude not only a separable thing but also able in the slot in the rim and engaging the one that is integral with or fixed to an articulator.

What I claim is:—

1. An attachment for dental articulators, 40 comprising a shell having a longitudinally slotted arcuate rim-piece, and a sector fitted to said rim-piece and bodily movable therein to change its angle of inclination.

2. An attachment for dental articulators. 45 comprising a shell having a longitudinally slotted arcuate rim-piece, and a sector fitted to said rim-piece and bodily movable therein to change its angle of inclination, and a set-screw passing through the slot in the 50 shell and tapped in the sector.

3. An attachment for dental articulators, comprising a shell having side-plates and a longitudinally slotted rim, a pair of sectors

mounted to slide longitudinally in said shell, and means for independently adjusting said 55 sectors as upon an axis and fixing them in said adjustment.

4. An attachment for dental articulators, having a guideway and holder composed of side plates and a connecting longitudinally 60 slotted arcuate rim, a sector mounted to slide bodily in said guideway and holder and means to fix said sector in adjusted po-

5. An attachment for dental articulators, 65 having a guideway and holder composed of side plates and a connecting longitudinally slotted arcuate rim, a plurality of independent sectors arranged apex for apex in said guideway and holder and each sector inde- 70 pendently movable bodily therein, and setscrews for fixing the sectors in adjusted position.

6. An attachment for dental articulators, comprising side-plates, and a longitudinally 75 slotted arcuate rim connecting said sideplates the whole constituting a shell, a sector mounted in said shell and a sector-adjusting device projecting through and movable in the slot in the rim and engaging the 80 sector and rim.

7. An attachment for dental articulators, comprising side-plates, and a longitudinally sector and rim, and a block attached to the shell and closing one of its ends.

8. An attachment for dental articulators, comprising side-plates, and a longitudinally slotted arcuate rim connecting said sideplates the whole constituting a shell, a sector mounted in said shell and a sector-ad- 95 justing device projecting through and movable in the slot in the rim and engaging the sector and rim, and a block attached to the shell and closing one of its ends, said block having a beveled end.

In testimony whereof I have hereunto set my hand this 31st day of May A. D. 1922. JOSEPH BECKER.

Witnesses:

ARCHIBALD MARTIN, Anna Higgins.