Feb. 6, 1951 W. H. SLAUGHTER, JR 2,540,555

DENTAL DEVICE

Filed March 8, 1950

Fig. 1

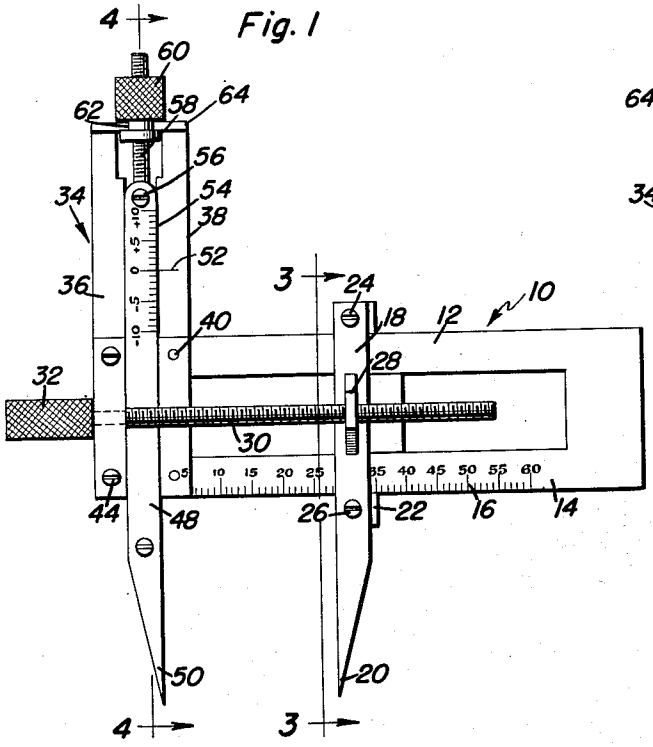


Fig. 2

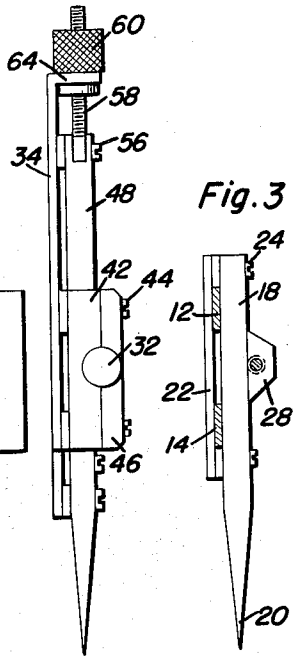


Fig. 3

Fig. 4

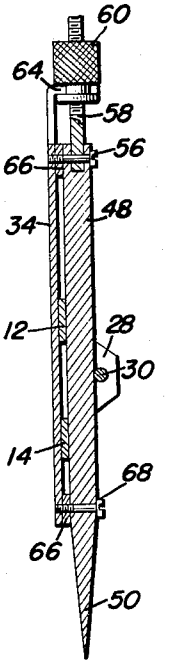
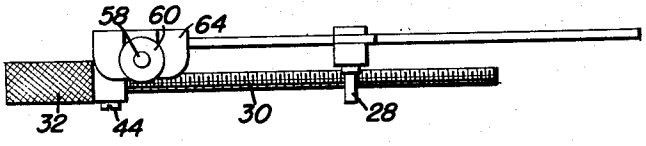


Fig. 5



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Patented Feb. 6, 1951 2,540,555

UNITED STATES PATENT OFFICE

2,540,555

DENTAL DEVICE

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Application March 8, 1950, Serial No. 148,401

3 Claims. (Cl. 33—174)

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This invention relates to a dental instrument specifically designed for the purpose of attaining precision in the field of crown and bridge work.

The primary object of this invention is to provide a dental gage so constructed as to make the necessary adjustments in all cases of crown and bridge prothesis.

Yet another object of this invention is to provide a dental parallelometer comprising a U-shaped frame having parallel legs and a graduated scale on one of the legs, a first pointed pin vertically mounted on said legs, means for adjustably moving said first pin horizontally across said legs, a second U-shaped frame having parallel legs secured vertically to the legs of said first frame and extending parallel to said first pointed pin, an index on one of the legs of said second frame, a second pointed pin mounted between the legs of said second frame and including a calibrated scale, and means for adjustably raising and lowering said second pointed pin between the legs of said second frame.

These, together with various ancillary objects and features of the invention which will later become apparent as the following description proceeds, are attained by the device, a preferred embodiment of which has been illustrated by way of example only in the accompanying drawings, wherein:

Figure 1 is a side elevational view of the device;

Figure 2 is an end elevational view looking from the left of Figure 1;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a sectional view taken on the line 4—4 of Figure 1; and

Figure 5 is a top plan view of the device.

Specific reference is now made to the drawings. In the several views in the accompanying drawings and in the following specification reference characters indicate corresponding elements throughout.

The present device is a gage in the form of a parallelometer and comprises a U-shaped frame 10 having parallel leg portions 12 and 14, the latter leg portion including a calibrated scale 16. Slidably and guidingly retained on the U-shaped frame is a substantially rectangular bar or gage pin 18 having parallel faces and a pointed bottom end 20. The pin is slidably retained on the leg portions by means of a plate 22 extending vertically across the legs and secured as at 24 and 26 to the gage pin. Extending laterally from the gage pin intermediate its ends is an internally

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threaded nut 28 which receives an externally thread screw 30 disposed parallel to the legs 12 and 14. The screw is further supported at the free ends of the leg portions and includes a knurled knob 32 for turning the same so that the gage pin can be horizontally adjusted upon the frame.

Secured perpendicularly to the free ends of the leg portions is a second U-shaped frame 34, the legs 36 and 38 of said second frame extending parallel to said gage pin 18. One of the legs 38 is secured to the frame 18 as at 40 while the other leg includes a forward portion 42 to which is secured by screws 44 a plate 46 forming a bearing for the knob end of the screw 30. A second gage pin 48 extends between the legs 36 and 38 and includes a pointed end 50. The leg 38 includes an index 52 while the second gage pin includes a cooperating calibrated scale 54.

Pivotally secured as at 56 to the upper end of the pin is a relatively short screw 58 which is received in a knurled knob 60 rotatably supported in an aperture 62 provided in the web portion 64 of the second frame 34. Bearings 66 are secured as at 68 and 56 to the second gage pin between the frame 34 and the pin.

In operation, turning the knob 32 will move the gage pin 18 horizontally on the frame 10 towards and away from the second gage pin 48 whereas the turning of the knob 60 will move the second gage pin vertically, the appropriate measurements being made at the scales 16 and 54. Throughout the entire movement of the gage pins they remain parallel to each other.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A dental parallelometer comprising a U-shaped frame having parallel legs and a graduated scale on one of the legs, a first pointed pin vertically mounted on said legs, means for adjustably moving said first pin horizontally across said legs, a second U-shaped frame having parallel legs secured vertically to the legs of said first

frame and extending parallel to said first pointed pin, an index on one of the legs of said second frame, a second pointed pin mounted between the legs of said second frame and including a calibrated scale, and means for adjustably raising and lowering said second pointed pin between the legs of said second frame.

2. The combination of claim 1 wherein said first named means includes an internally threaded nut laterally secured to said first pin, and externally threaded horizontal screw received in said nut, a guide on said second frame receiving

a portion of said screw and a knob on one end of said screw.

3. The combination of claim 1 wherein said last named means includes an internally threaded nut extending through the web portion of said second frame and an externally threaded screw pivoted at its lower end to the upper end of said second pointed pin and received in said nut.

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No references cited.