Jan. 22, 1924. 1,481,669

W. N. JUSTICE

ADJUSTING DEVICE APPLICABLE TO DIAL CONTROLLED INSTRUMENTS FOR WIRELESS TELEGRAPHY AND TELEPHONY

Filed June 9, 1922

Fig. 1.

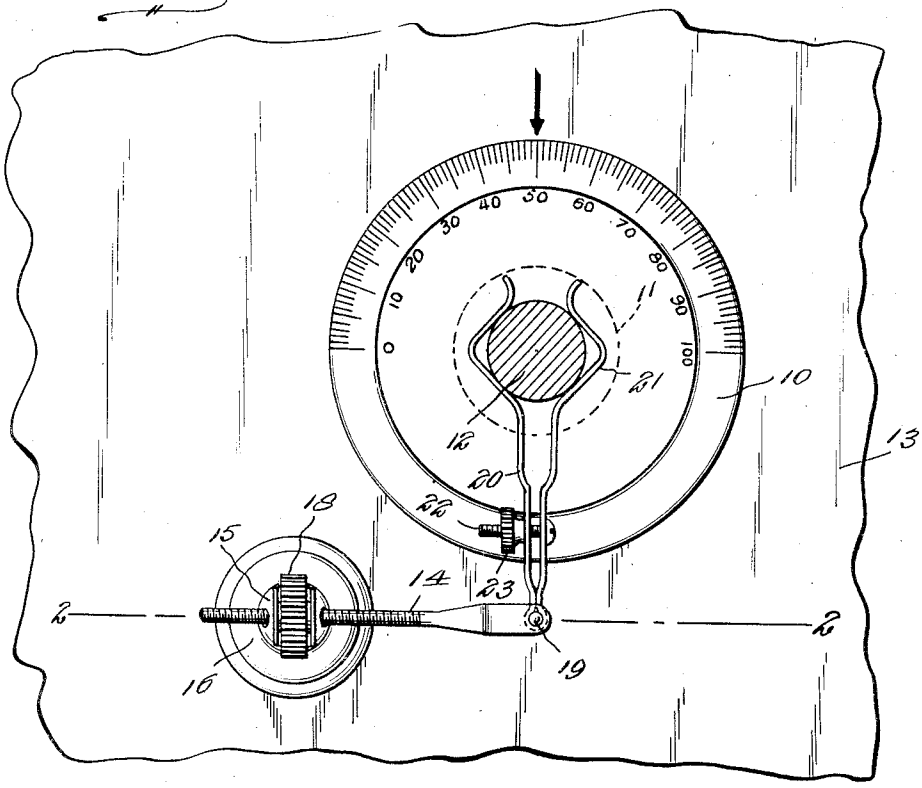
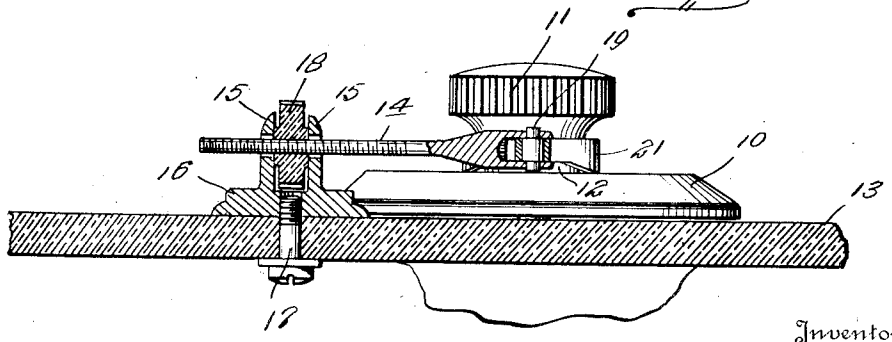


Fig. 2.



Witnesses:
F. L. Fox,

Inventor
William N. Justice.

By Albert R. Perkins.
Attorney

Patented Jan. 22, 1924. 1,481,669

UNITED STATES PATENT OFFICE.

WILLIAM N. JUSTICE, OF BALTIMORE, MARYLAND.

ADJUSTING DEVICE APPLICABLE TO DIAL-CONTROLLED INSTRUMENTS FOR WIRELESS TELEGRAPHY AND TELEPHONY.

Application filed June 9, 1922. Serial No. 566,976.

To all whom it may concern:

Be it known that I, WILLIAM N. JUSTICE, a citizen of the United States, residing at Baltimore, in the county of Baltimore City and State of Maryland, have invented certain new and useful improvements in adjusting devices applicable to dial-controlled instruments for wireless telegraphy and telephony, of which the following is a specification.

This invention relates to improvements in adjusting devices especially designed for application to dial controlled instruments for wireless telegraphy or telephony, although the invention is useful in connection with various other mechanisms or devices.

Another object of the invention is the provision of an adjusting mechanism which may be connected to the adjusting knob of dial controlled instruments of ordinary make, in a ready and convenient manner and without changing or disturbing the dial or knob structure.

Another object of the invention is the provision of a device of this character, by means of which a minute and accurate adjustment of the instrument may be made, without interfering or preventing a rapid initial adjustment, so that the instrument may be quickly and accurately adjusted and when so adjusted will be held against accidental movement.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation showing the instrument dial with the invention applied thereto, the shank of the instrument adjusting knob being shown in section and the knob by dotted lines.

Figure 2 is a section taken substantially on the line 2—2 of Figure 1.

Referring in detail to the drawings, wherein like characters of reference denote corresponding parts, the invention is illustrated as applied to a dial controlled instrument such as is commonly used in wireless telegraphy and telephony and which includes a dial 10 and an operating or adjusting knob 11 which is connected to the dial by means of a shank 12, the said dial being mounted upon an insulating panel 13.

The dial 10 may be adjusted by means of a knob 11 in the usual manner, but in addition there is provided means which constitute the present invention, for obtaining a minute and accurate adjustment of the dial and consequently of the instrument. For this purpose there is provided a threaded arm 14, having one end extending through aligned openings provided in the spaced ears 15 of a pivotally mounted bearing bracket 16, the said bracket being secured to the panel 13 by means of a screw or similar securing member 17. Located between the spaced ears 15 and threadedly engaging the adjusting arm 14 is an adjusting nut 18 having a roughened or serrated periphery by means of which it may be conveniently rotated to move the arm 14 longitudinally.

Pivotally secured to one end of the arm 14 as shown at 19 is a gripping member, which includes spaced yieldable arms 20, which carry at their outer ends opposed gripping jaws 21, which are designed to frictionally engage the shank 12 of the knob 11. These jaws may be of angular formation as shown and are designed to engage upon the opposite sides of the shank 12 for frictional engagement therewith, so that when the adjusting arm 14 is moved longitudinally, the dial 10 will be rotated and the instrument accordingly adjusted.

In order to insure proper gripping action of the jaws 21, yet permit of the dial being rotated independently of the jaws, there is provided a tensioning device in the form of a screw 22, which passes through the arms 20 and has mounted thereon an adjusting nut 23. The spring action of the arms 20 may thus be adjusted and the gripping action of the jaws 21 regulated.

From the foregoing description and accompanying drawings, it will be seen that the invention may be easily and quickly applied to an instrument and the latter may be rapidly adjusted by operating the knob 11 in the usual manner and after an initial adjustment has been obtained, a further minute and accurate adjustment may be made by operating the adjusting nut 18. When proper adjustment has been obtained, the invention will act to hold the instrument in adjusted position until purposely moved.

The invention is susceptible of various changes in its form, proportions and minor

details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

The combination with a rotatably mounted member, of a pivotally mounted bearing spaced from said member and including spaced bearing arms, a threaded arm slidable through openings in the bearing arms, a rotatable adjusting member positioned between the bearing arms and threadedly engaging the threaded arm, whereby the latter may be moved longitudinally and means secured to the threaded arm and rotatably mounted member, whereby the latter may be adjusted.

In testimony whereof I affix my signature.

WILLIAM N. JUSTICE.