

J. W. TENNY.
DENTAL DRILL HOLDING DEVICE.
APPLICATION FILED MAR. 25, 1913.

1,064,564.

Patented June 10, 1913.

Fig. 1.

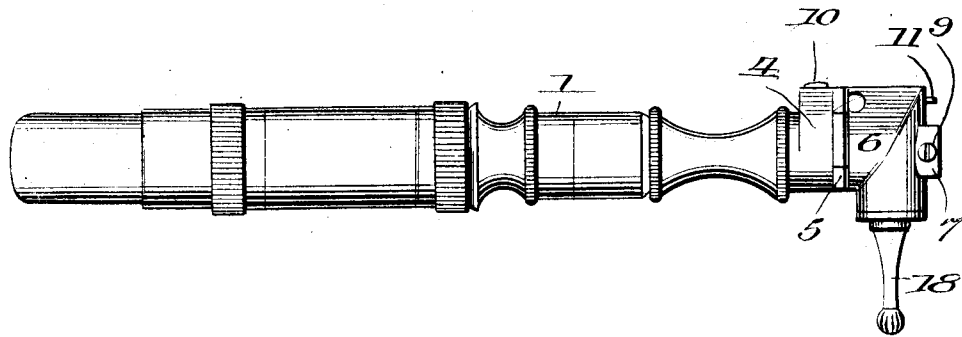


Fig. 2.

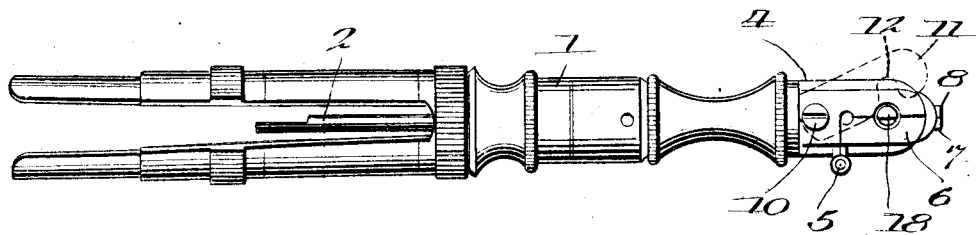


Fig. 3.

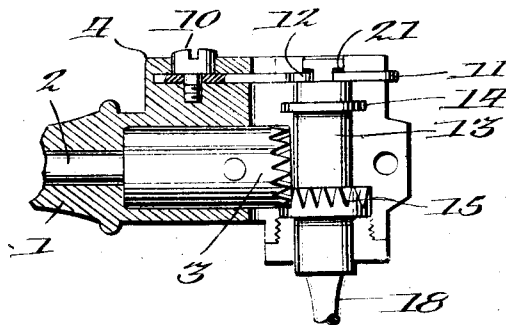


Fig. 4.

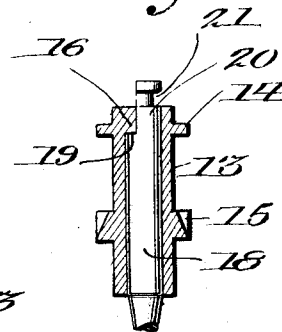
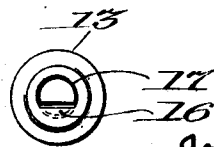


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN W. TENNY, OF PONCHATOULA, LOUISIANA, ASSIGNOR OF ONE-HALF TO REUBIN A. PIERSON, OF PONCHATOULA, LOUISIANA.

DENTAL DRILL-HOLDING DEVICE.

1,064,564.

Specification of Letters Patent.

Patented June 10, 1913.

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To all whom it may concern:

Be it known that I, JOHN W. TENNY, citizen of the United States, residing at Ponchatoula, in the parish of Tangipahoa and State of Louisiana, have invented new and useful Improvements in Dental Drill-Holding Devices, of which the following is a specification.

My present invention pertains to dental-drill holders; and it contemplates the provision of a holder calculated to preclude wobbling of a dental drill, and this while permitting of the drill being expeditiously and easily removed and replaced with another drill when occasion demands.

Other objects and advantageous features of the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:

Figure 1 is an elevation of the holder constituting the preferred embodiment of my invention. Fig. 2 is a plan of the same. Fig. 3 is an enlarged detail view showing the manner in which the working parts are positioned in the head of the holder. Fig. 4 illustrates the arrangement of a drill in the sleeve through the medium of which the drill is rotated about its axis.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

The body 1 of my novel holder is designed to be connected with a dental engine in the conventional manner, or in any other manner compatible with the purpose of my invention, and in the said body is journaled a shaft section 2 which is driven from the engine in the ordinary well known manner, and is provided at its forward end with a gear 3, Fig. 3.

Fixed with respect to the forward end of the body 1 is one section 4 of the head of the holder, and to the said section 4 is hinged at 5, a section 6 that is adapted to be opened as occasion demands. The said section 6 is provided with an apertured lug 7 which is designed to be opposed to a similar lug 8 on the section 4, and to be detachably connected thereto through the medium of a screw 9.

While I have shown the hinge 5 as projecting from the head, it is manifest that the said hinge may in the future practice of the

invention be made flush with the head without involving departure from the scope of my invention as defined in my appended claims.

Pivoted at 10 in the holder head is a latch 11, notched at 12, and journaled in the said holder head is a sleeve 13, best shown in Fig. 4. The said sleeve 13 is provided with an exterior flange 14 and an exterior gear 15, the latter being intermeshed with the gear 3 as best shown in Fig. 3, whereby when the shaft 2 is rotated the sleeve 13 will also be rotated. Interiorly the sleeve 13 is provided with an abutment 16, and in the upper end of the sleeve is formed an aperture 17, Fig. 5 which describes a little more than half of a circle.

The drill indicated by 18 is provided at 19 with a shoulder designed to be opposed against the abutment 16 so as to limit the upward movement of the drill in the sleeve. Above the shoulder 19 the drill is provided with a portion 20 which describes a little more than half of a circle to conform to the aperture 17 in the sleeve 13, and above the said portion 20 the drill is provided with a grooved portion 21, the said groove to receive the notched portion of the latch 11 so as to enable the latch to securely retain the drill in the sleeve without interfering with the rotation of the drill about its axis.

It will be gathered from the foregoing that the hinged section 6 of the holder head is advantageous inasmuch as it is calculated to keep the sleeve and the drill therein true while in motion. The said hinged section is also advantageous since it can be adjusted to assure true rotation of the sleeve and the drill therein, and also to take up wear or lost motion and maintain the sleeve and the drill at all times in correct position.

It will further be appreciated from the foregoing that the hinged section 6 affords ready access to the interior of the head when it is necessary to repair or replace the sleeve and its appurtenances.

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

1. A dental-drill holder having a head comprising a fixed section and a hinged section, means for adjustably fixing the hinged section with respect to the fixed section, a sleeve secured and journaled between the fixed section and the hinged section; said

sleeve being constructed and arranged to receive a drill, and means in the holder for transmitting rotary motion to the sleeve.

2. A dental-drill holder having a head 5 comprising a fixed section having a lug and a hinged section having a lug opposed to that of the fixed section, an adjusting screw connecting the said lugs, a sleeve secured and journaled between the fixed section and 10 the hinged section; said sleeve being constructed and arranged to receive a drill, and means in the holder for transmitting rotary motion to the sleeve.

3. A dental-drill holder comprising a 15 body, a head section fixed thereto, a head section hinged to the fixed section, means for adjustably fixing the hinged section with respect to the fixed section, a sleeve journaled and secured between the fixed section 20 and the hinged section and having an exte-

rior flange and an interior abutment and also having an upper end aperture of angular form in cross-section, a shaft journaled in the body and connected by gearing with the sleeve, a drill arranged in the sleeve and 25 having a shoulder opposed to the interior abutment thereof and also having a portion corresponding in shape to and snugly occupying the upper end aperture of the sleeve and further having a groove disposed 30 above the sleeve, and a latch pivoted in the fixed head section and notched to engage the grooved portion of the drill.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit- 35 nesses.

JOHN W. TENNY.

Witnesses:

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PETER R. POCHÉ.