

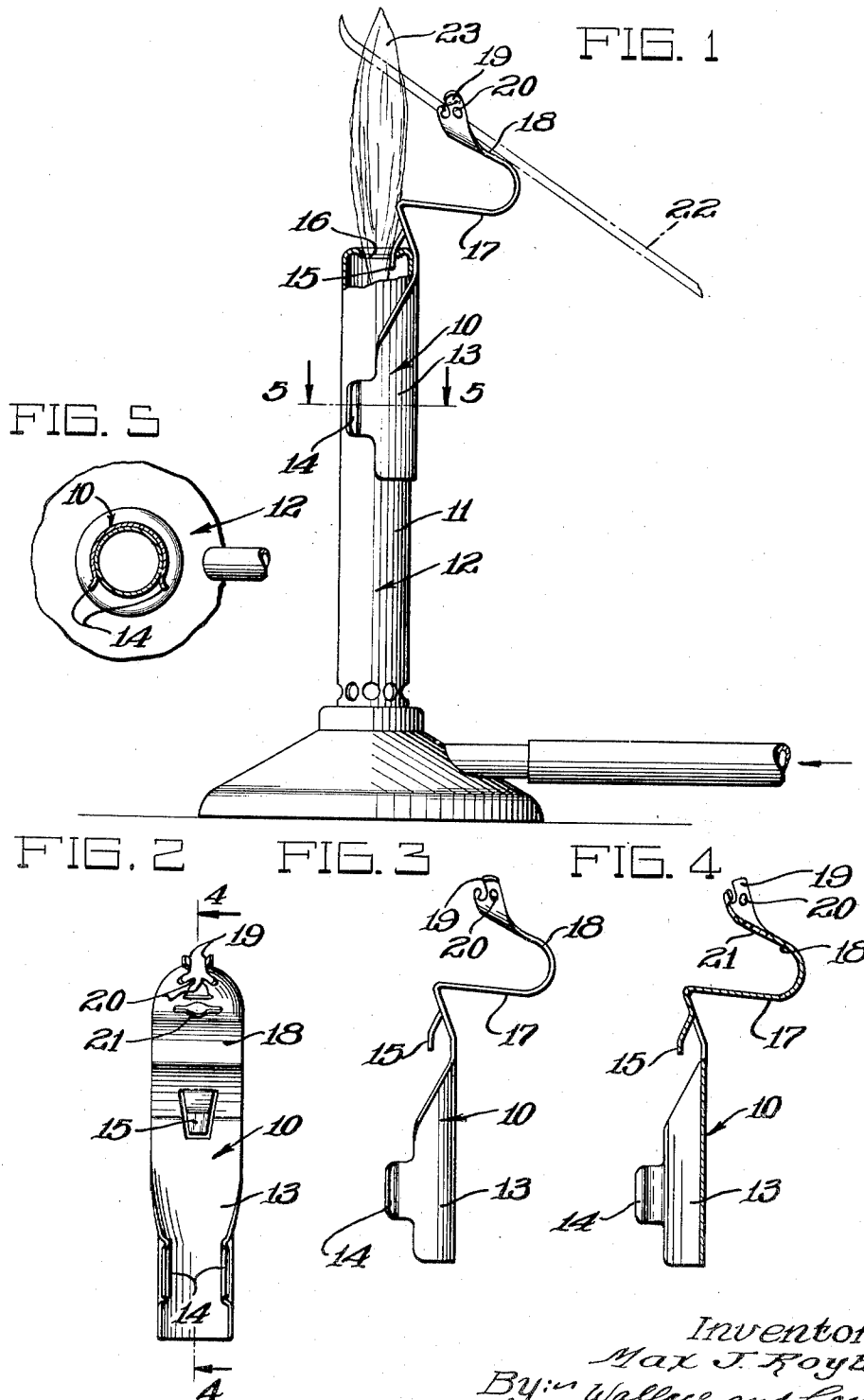
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BUNSEN BURNER ATTACHMENT

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BUNSEN BURNER ATTACHMENT

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1 Claim. (Cl. 126—231)

This invention relates to a supporting device for attachment to a Bunsen burner.

An object of the invention is to provide a novel supporting device for detachable attachment to a Bunsen burner so as to support selectively various tools or instruments upon a Bunsen burner for heating a portion of such tool or instrument in the flame of the burner.

Another object of the invention is to provide a novel supporting device for detachable attachment of a Bunsen burner for supporting various instruments or tools thereon and in such a position relative to the burner that waxes, and other materials, which may adhere to the instrument will not, when melted under the heat of the burner flame, drop into the burner itself or into the barrel thereof.

Still another object of the invention is to provide a supporting device for attachment to Bunsen burners and which is especially adapted for use by dentists and dental technicians in holding various dental instruments, such as are used in forming or working wax castings, so as to heat such an instrument readily in the flame of a Bunsen burner while at the same time, preventing any wax or like material which may be adhered to the instrument from falling into the burner or into the barrel thereof when melted by the heat of the burner flame.

Other objects will appear hereinafter.

In the drawing:

Fig. 1 is an elevational view, partly in section, illustrating a typical embodiment of the invention as applied to a Bunsen burner, a part of the wall of the barrel of the Bunsen burner being broken away to illustrate the construction and use of the new supporting device;

Fig. 2 is a front elevational view of the new supporting device;

Fig. 3 is a side elevational view of the new supporting device;

Fig. 4 is a centrally vertical sectional view of the new supporting device on line 4—4 in Fig. 2; and

Fig. 5 is a sectional plan view of the new supporting device on line 5—5 in Fig. 1.

A typical embodiment of the new supporting device is illustrated in the drawing, wherein it is generally indicated by 10 and is shown as being detachably mounted upon the tubular barrel 11 of a Bunsen burner 12 of conventional design.

The new Bunsen burner attachment or supporting device 10 includes a generally channel-shaped body 13 which is preferably formed of suitable ferrous, metallic material, and this body 13 has a pair of resilient clamping arms 14 formed integrally therewith one at each side thereof. These resilient clamping arms 14 are adapted to releasably grip or clamp the side wall of the barrel 11 of the Bunsen burner 12 so as to hold the new supporting device 10 detachably in position thereon.

The new Bunsen burner attachment or supporting device 10 has a latching tongue 15 formed integrally therewith and struck therefrom and this latching tongue 15 is adapted to latchingly engage in the central opening or gas-air mixture outlet 16 at the top of the burner

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barrel 11 as shown in Fig. 1, so as to hold the new Bunsen burner attachment or supporting device securely in position of use upon the barrel 11 of the Bunsen burner 12.

The new Bunsen burner attachment or supporting device 10 also includes a laterally and generally horizontally extending supporting arm 17 which is formed integrally with the upper end portion of the body 13; and this laterally and horizontally extending supporting arm 17 has an upwardly inclined tool receiving or instrument receiving portion 18 which is provided at the upper end thereof with a pair of resilient gripping arms 19 which are formed integrally therein. As best shown in Fig. 2 the tool receiving and instrument receiving extension 18 extends upwardly at an acute angle relative to the laterally and generally horizontally extending arm 17, and this extension 18 has a pair of tool receiving rests or prongs 20 formed therein below the resilient gripping arms 19.

In the use of the new Bunsen burner attachment or supporting device 10, the same may be detachably mounted upon the barrel 11 of a Bunsen burner 12 by slipping the resilient gripping arms 14 about the burner barrel 11 and projecting the latching tongue 15 downwardly through the central opening 16 or gas-air outlet at the upper end portion of the barrel 11 so that the new Bunsen burner attachment or supporting device 10 will thereupon be mounted in position of use, as shown in Fig. 1. To facilitate this result the resilient gripping arms 14 and the body 13 of the new Bunsen burner attachment are so formed that the resilient gripping arms 14 will be spread slightly when placed upon the burner barrel 11 which is somewhat larger in diameter than the diameter of the generally channel-shaped body 13. When so disposed, the new Bunsen burner attachment or supporting device 10 will have the laterally and generally horizontally extending supporting arm 17 and its upward extension 18 positioned as shown in Fig. 1, whereupon any desired dental or other tool or instrument 22, which the user may desire to heat in the flame 23 of the Bunsen burner 12, may be inserted between the yieldable gripping arms 19 so as to rest on the inclined upward extension 18 of the horizontally extending supporting arm 17 and in the rests or prongs 20, as shown in Fig. 1, with a portion of the tool or instrument 22 projecting into the flame 23 of the Bunsen burner 12.

After a portion of the tool or instrument 22 has thus been heated, the tool or instrument 22 may be readily removed from the new Bunsen burner attachment or supporting device 10 by simply pulling it out of position between the resilient gripping arms 19, whereupon the new Bunsen burner attachment or supporting device 10 may be readily removed from the barrel 11 of the Bunsen burner 12 by raising it slightly so as to remove the latching arm 15 from the central outlet opening 16 at the top of the barrel 11 and then sliding the body 13 from the burner barrel 11.

As shown in the drawing, the upwardly inclined supporting arm 18 has an elongated slot or opening 21 formed therein, below the tool receiving rests or prongs 20, and this elongated slot or opening 21 makes it possible for the user of the new Bunsen burner attachment to support a tool or instrument in a generally horizontal position, during the heating operation by projecting a portion of the tool through the slot or opening 21 into the flame 23 with a portion of the tool or instrument 22 resting on the upwardly extending supporting portion 18.

It will be noted that the arrangement of parts in the new Bunsen burner attachment, include the laterally and generally horizontally extending arm 17 at the inclined upward extension 18, thereby prevents any wax or other material which may be disposed in the tool or instrument 22 from dropping into the burner 12 or into the

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barrel 11 thereby when melted by the heat of the flame 23 of the burner.

It will thus be seen from the foregoing description, considered in conjunction with the accompanying drawing, that the present invention provides a new and improved Bunsen burner attachment or supporting device having the desirable advantages and characteristics and accomplishing its intended objects including those herein just pointed out and others which are inherent in the invention.

I claim:

A supporting device for attachment to the tubular barrel of a Bunsen burner adapted to support a dental instrument or other tool thereon with a portion of the said dental instrument or other tool projecting into the flame area of the burner, consisting of a one-piece metal supporting member including a vertically extending resilient gripping element curved to yieldingly embrace a portion less than the entire circumference of the tubular barrel of the burner and having a pair of handle elements formed thereon one at each inner end thereof to enable the said resilient gripping element to be manually grasped and expanded and inserted into and removed from position of use on the tubular barrel of the burner, said supporting member having an upwardly extending neck portion extending above and angularly inwardly relative to the said handle elements and said neck portion having a resilient latch element struck inwardly and downwardly therefrom and providing a resilient latch element adapted to project downwardly into the barrel of the burner at the top thereof and to resiliently grip the wall of the barrel of the burner so as to yieldably clamp the said supporting device on the barrel of the burner between said latch element and the said neck portion of said supporting member, said supporting member including a generally horizontally extending portion formed as an integral ex-

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tension of the said neck portion at the top of the latter and projecting laterally therefrom outwardly beyond the plane of the said gripping elements, said supporting member including an inclined portion formed integral with the said laterally projecting portion and having an end portion projecting inwardly and upwardly at an angle above the said neck portion and having a notch formed centrally therein at its upper edge and having a pair of resilient clamping elements formed therein on opposite sides of said notch and adapted to yieldably clamp a dental tool or other instrument and to hold the same in an inclined position with a portion thereof resting on said inclined portion and with a portion thereof projecting above the top of the barrel of the burner into the flame area thereof.

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