

[54] **MAGNIFYING ATTACHMENT FOR TWEEZERS**

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[51] Int. Cl. **B25b 9/02, A61b 17/50**

[58] Field of Search **81/43; 128/354, 355; 350/243, 244**

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FOREIGN PATENTS OR APPLICATIONS

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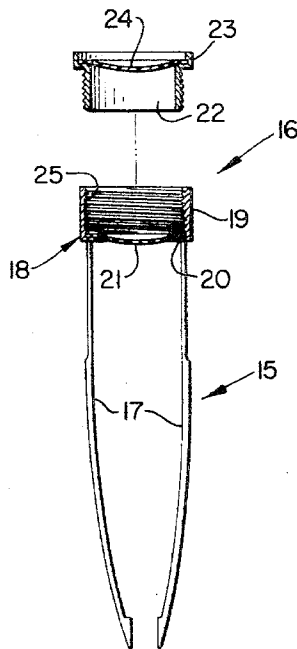
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[57] **ABSTRACT**
 Tweezers having a head from which the tweezers' arms extend. The head defines an opening and provides a support for a magnifying lens covering said opening, and which enables the user to view the object or part, to be gripped by the jaws of the tweezers' arms, magnified or enlarged.

4 Claims, 5 Drawing Figures



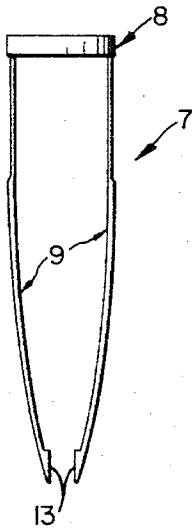


FIG. 1

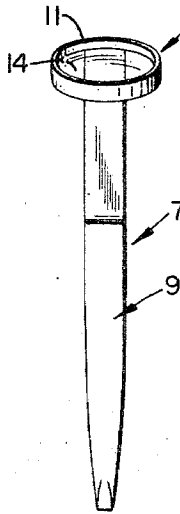


FIG. 2

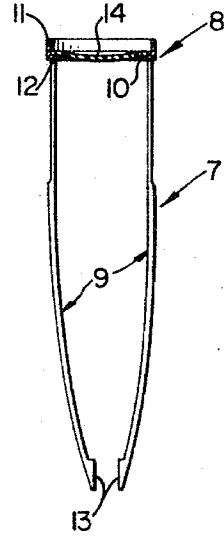


FIG. 3

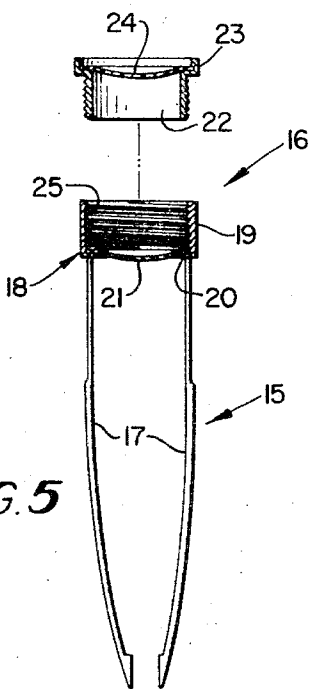


FIG. 5

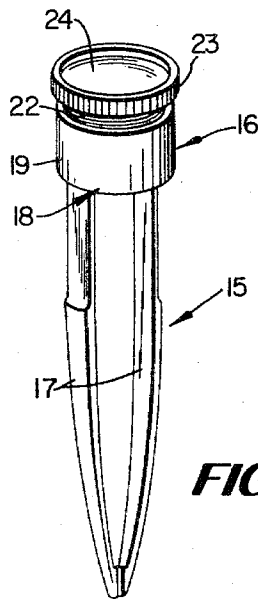


FIG. 4

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MAGNIFYING ATTACHMENT FOR TWEEZERS

SUMMARY

It is a primary object of the present invention to provide a magnifying attachment affording the user an enlarged or magnified view, longitudinally through the tweezers, between the arms thereof of the object or part to be engaged by the tweezers.

A further object of the invention is to provide tweezers having magnifying means which may be made in various sizes for use in various fields of endeavor, as in the medical profession, by barbers and beauticians, in the arts and crafts, by mechanics, watchmakers and for general home use.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating presently preferred embodiments thereof, and wherein:

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a side elevational view of one embodiment of the tweezers;

FIG. 2 is a perspective view, taken at a right angle to FIG. 1;

FIG. 3 is a view partly in section and partly in elevation of the tweezers;

FIG. 4 is a perspective view of a second embodiment of the tweezers, and

FIG. 5 is an exploded view, partly in side elevation and partly in vertical section, of the tweezers of FIG. 4.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring more specifically to the drawing and first with reference to FIGS. 1, 2 and 3, the tweezers as disclosed therein and designated generally 7 comprise a head 8 and a pair of corresponding resilient arms 9. The head 8 is shown as being annular or ring-shaped but could be square or of other shapes so long as it provided an opening, such as the opening 10, of the head 8. As best seen in FIG. 3, the ring member defining the head is of angular cross section including an outer flange 11 and an inwardly extending bottom flange 12.

The arms 9 are secured permanently in any conventional manner to diametrically opposed portions of the underside of the bottom flange 12. Said arms extend from the head 8 in substantially parallel relation to one another and terminate at their opposite free ends in corresponding opposed gripping jaws 13, which are normally spaced apart from one another a slight distance as compared to the spacing between the opposite ends of the legs 9, which are secured to the head 8. This reduced spacing of the jaws 13 is accomplished by the arms 9 being curved inwardly with respect to one another, adjacent the jaws 13.

The ring-shaped head 8 provides a holder or support for a magnifying lens 14 which is disposed within the outer flange 11 and rests on the bottom flange 12 thereof. The magnifying lens 14 can be secured in the head 8, in any conventional manner, not shown.

From the foregoing it will be apparent that the tweezers' arms 9 will be gripped by the user between his or her thumb and index or index and middle fingers for supporting and manipulating the tweezers. The user can view the object or part to be gripped between the

jaws 13 through the magnifying lens 14 so that said object or part will appear enlarged or magnified to the user. The jaws 13 can be displaced toward one another by a squeezing or gripping pressure applied by the user to the arms.

FIGS. 4 and 5 illustrate a second embodiment of the invention comprising tweezers 15 including a head 16 and arms 17. The head 16 is ring-shaped and includes an annular member 18 having an outer flange 19 of considerable length and an intumed bottom flange 20, substantially corresponding to the flange 12. The arms 17 correspond to the arms 9 and are secured in the same manner to the flange 20. A magnifying lens 21 is disposed in the member 18 and rests on its bottom flange 20.

As seen in FIG. 5, the outer flange or sleeve 19 is internally threaded, as seen at 25, to threadedly receive an externally threaded tubular member 22 having an enlarged knurled annular rim 23 at its upper end in which is mounted a second magnifying lens 24. The member 22 constitutes a part of the head 16 and is adjustable in the sleeve 19 for varying the spacing between the lenses 21 and 24 for focusing the magnifier, formed of said lenses. The tweezers 15 are utilized in the same manner as heretofore described in connection with the tweezers 7. If desired, the lens 21 could be omitted and the lens 24, employed alone, could be adjusted toward and away from the gripping jaws of the arms 17 to afford the best focus for enlargement of the object for the viewer.

The threads of the members 19 and 22 could be omitted to provide a sliding or telescopic fit for adjusting the spacing between the focusing of the lenses 21 and 24, and various other modifications and changes are contemplated and may be resorted to without departing from the function or scope of the invention.

I claim as my invention:

1. Tweezers comprising a ring-shaped head, a pair of resilient arms secured directly to substantially diametrically opposite portions of the head and extending in the same direction and in an axial direction from said head and disposed in spaced apart relation to one another, said arms having opposite free ends defining opposed jaws normally disposed in spaced apart relation to one another, said head having an opening disposed in alignment with the space between said jaws, and a magnifying lens covering said opening and supported by the head for magnifying an object to be gripped by the jaws when viewed by the user through said lens.

2. Tweezers as in claim 1, said head including an outer flange and an inwardly extending bottom flange, a marginal portion of said lens resting on said bottom flange.

3. Tweezers as in claim 2, a tubular member constituting a part of said head and size to fit into said outer flange, a second lens supported by said tubular member, and means for adjusting said tubular member longitudinally of the outer flange for varying the spacing between said magnifying lenses for focusing the magnifier.

4. Tweezers as in claim 3, said means comprising a threaded connection between the outer flange and tubular member.

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