

Feb. 28, 1939.

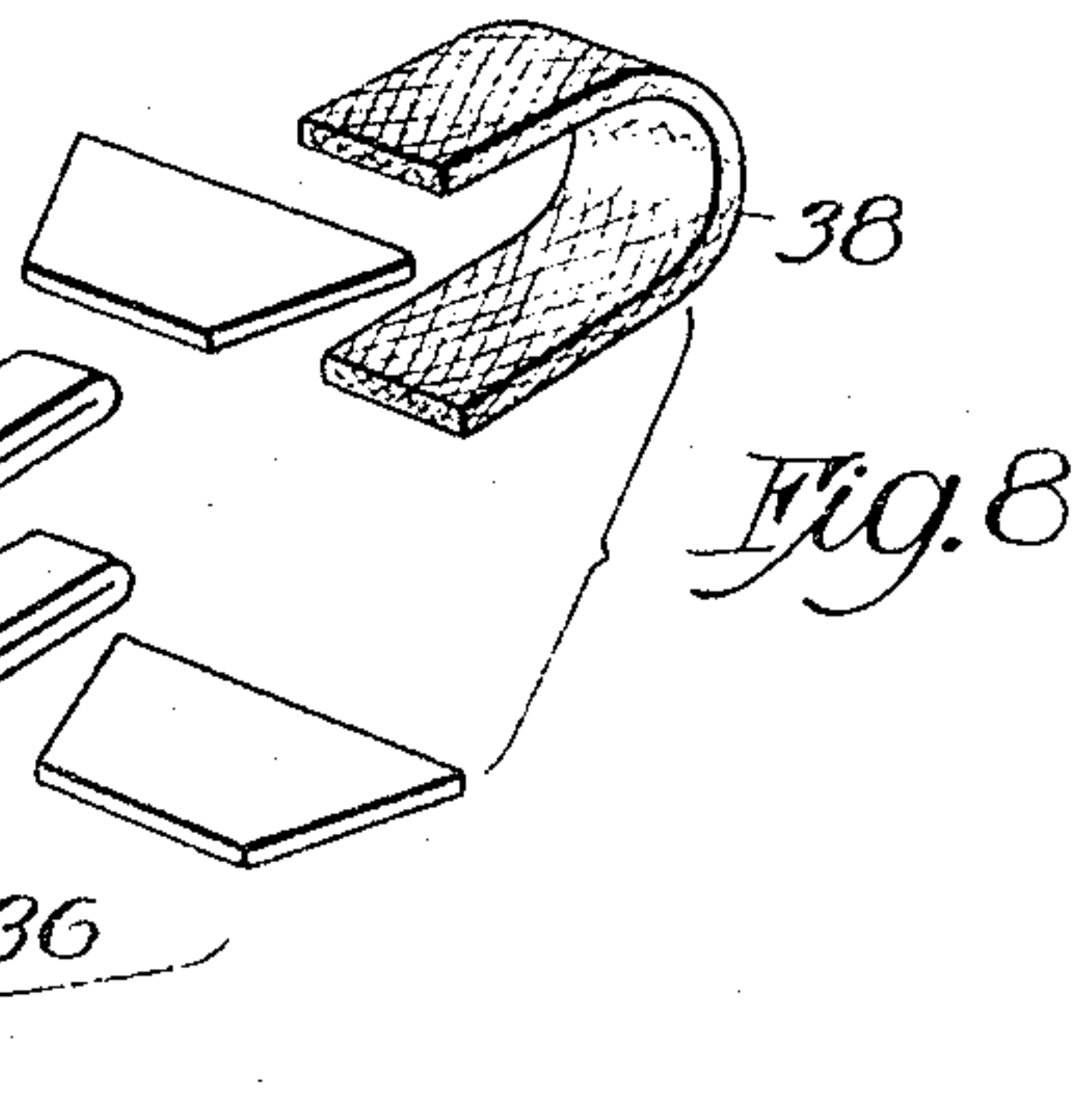
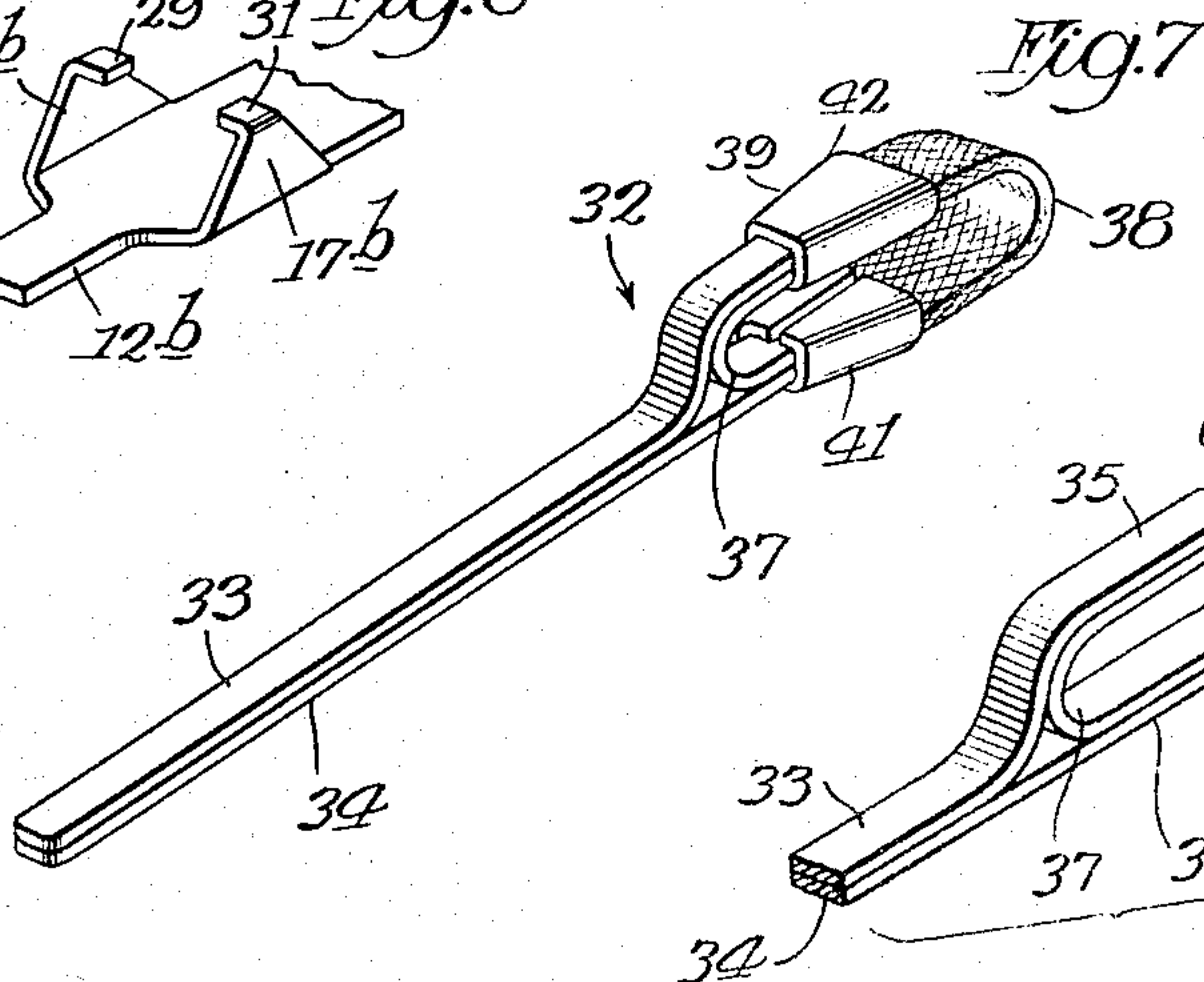
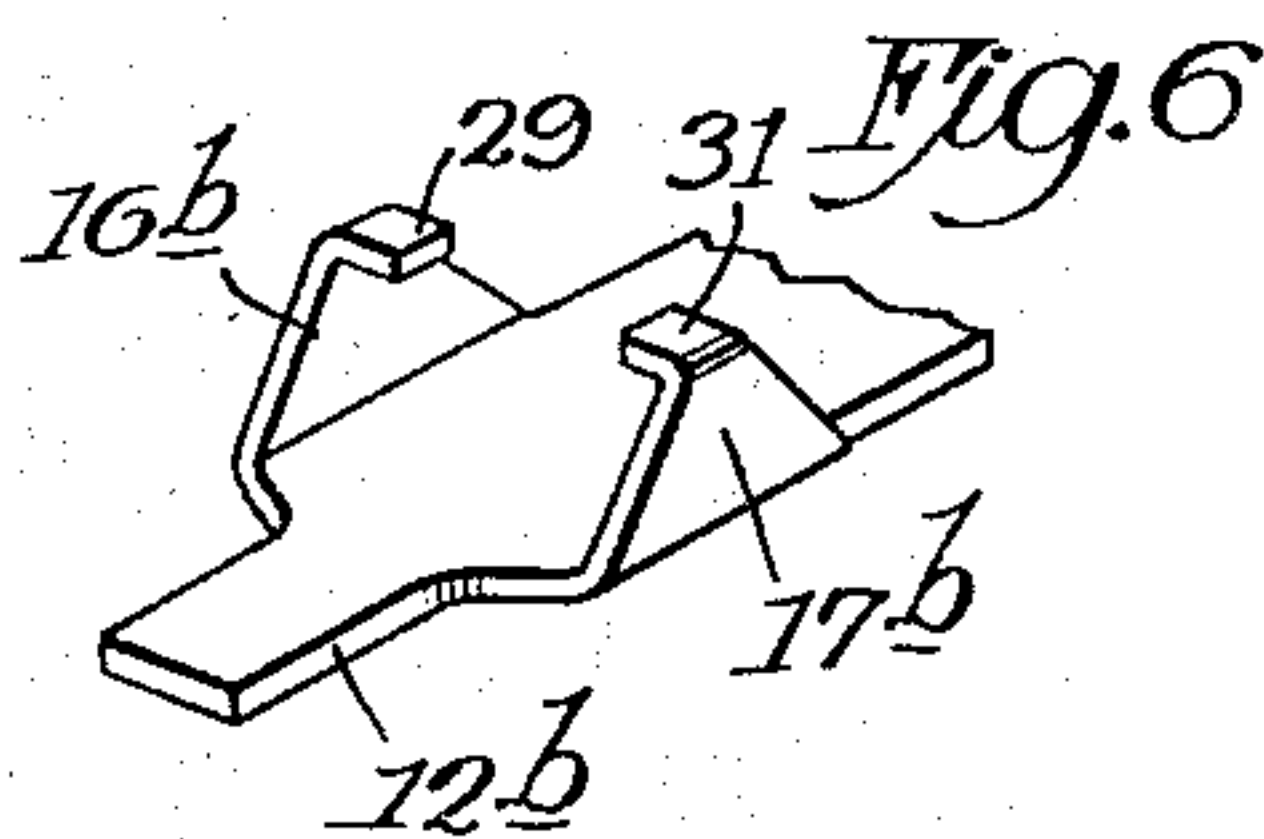
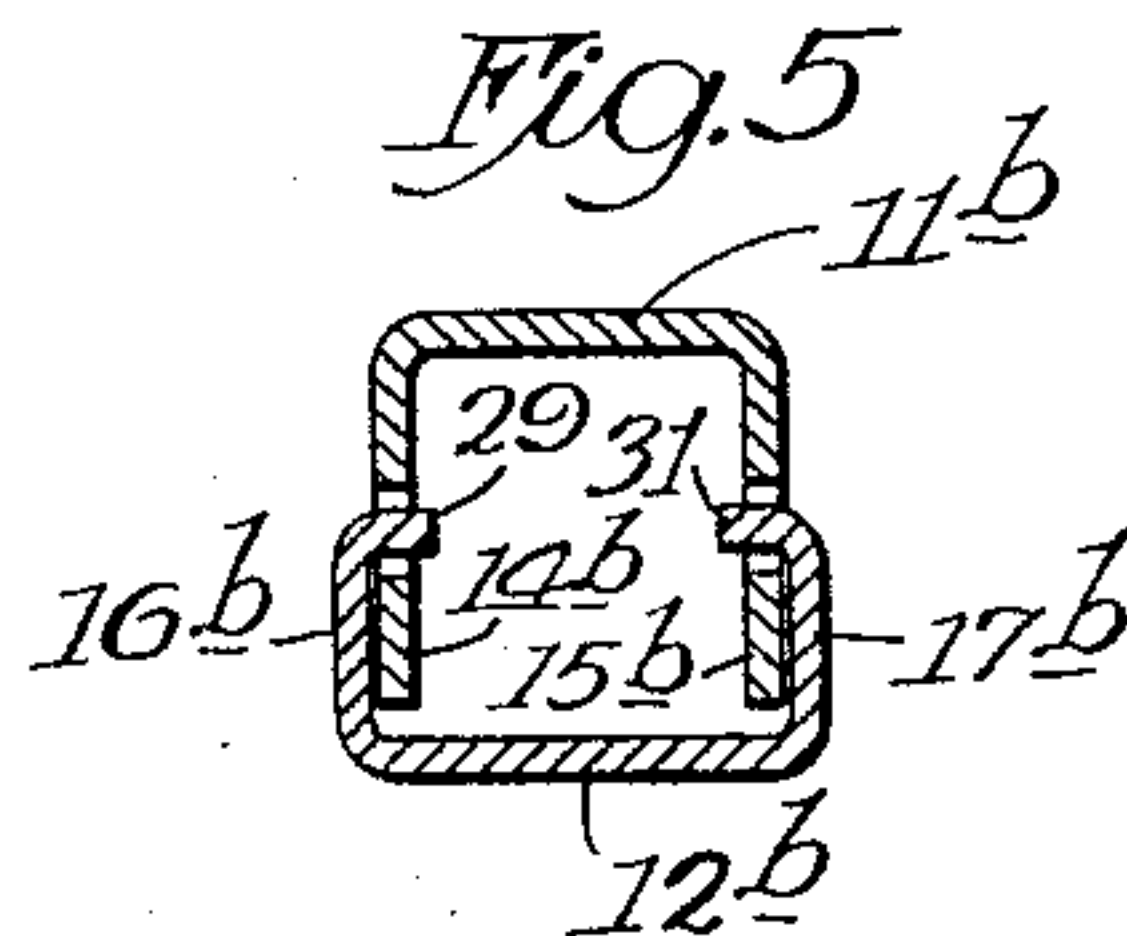
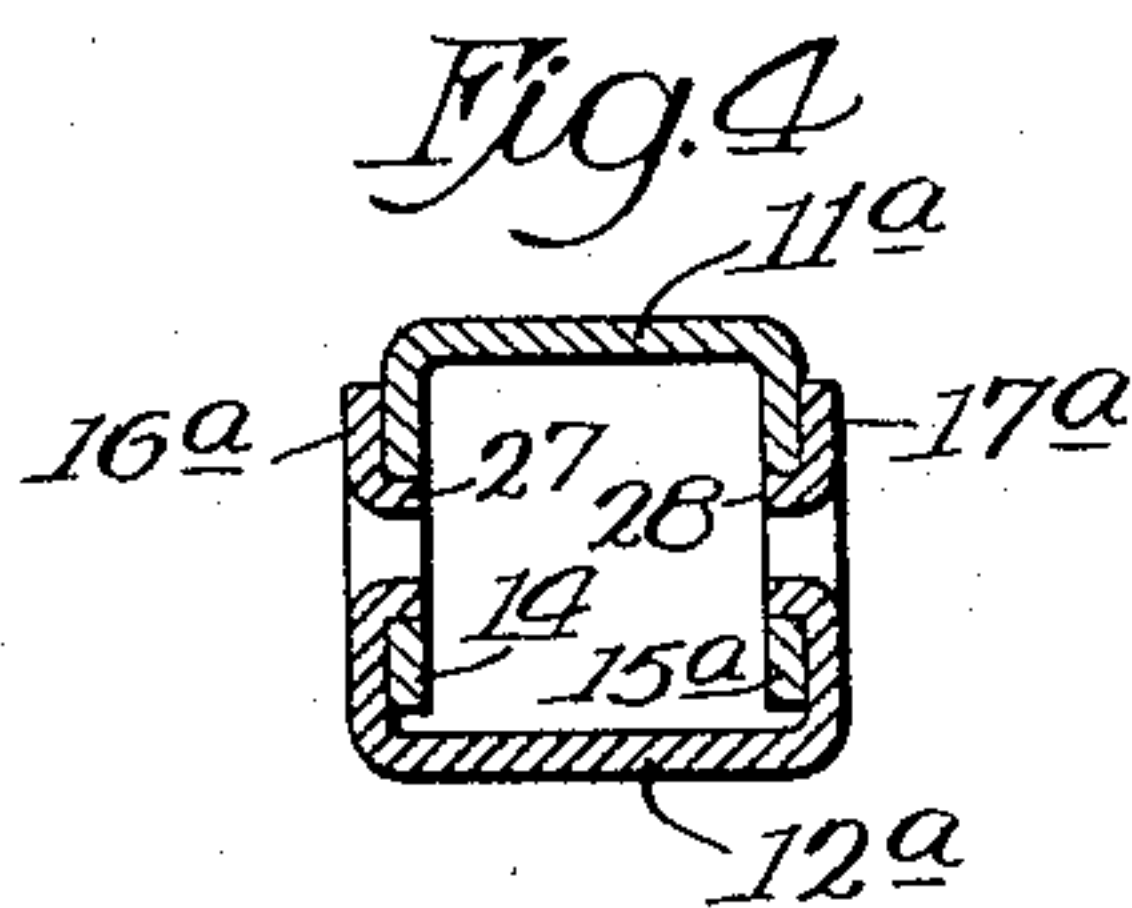
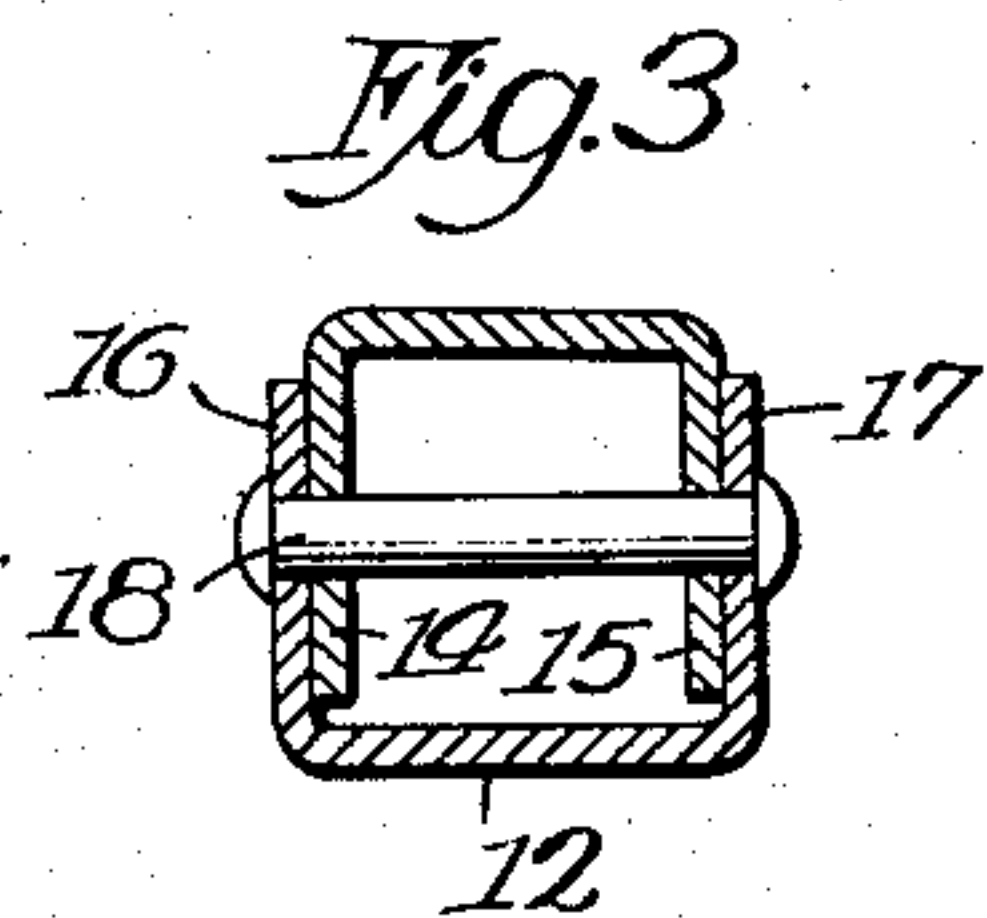
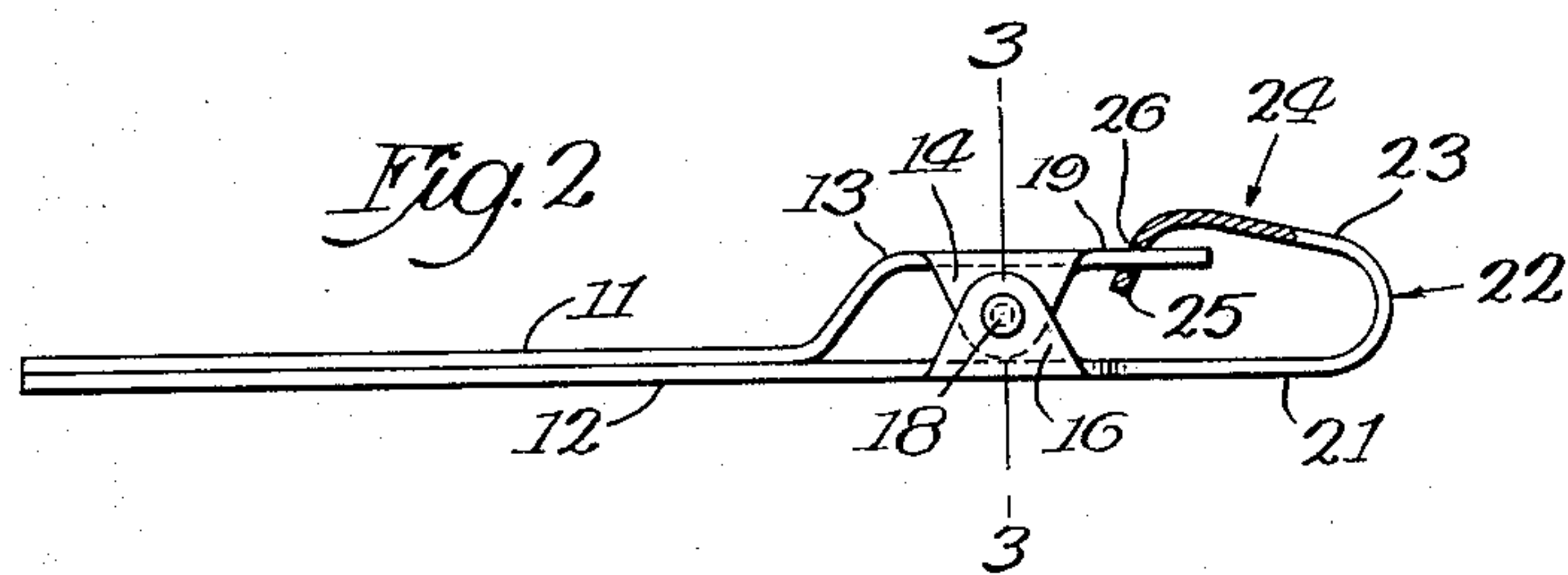
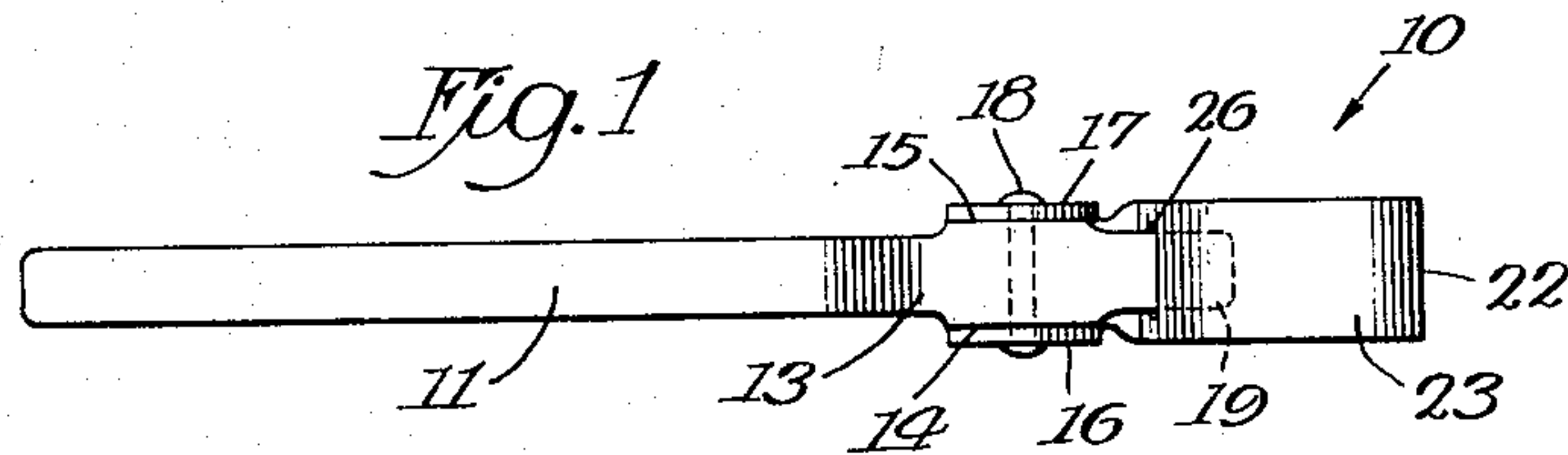
F. FUSCALDO ET AL

2,149,214

HAIR CLIP

Filed Feb. 24, 1937

2 Sheets-Sheet 1



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Fig. 9

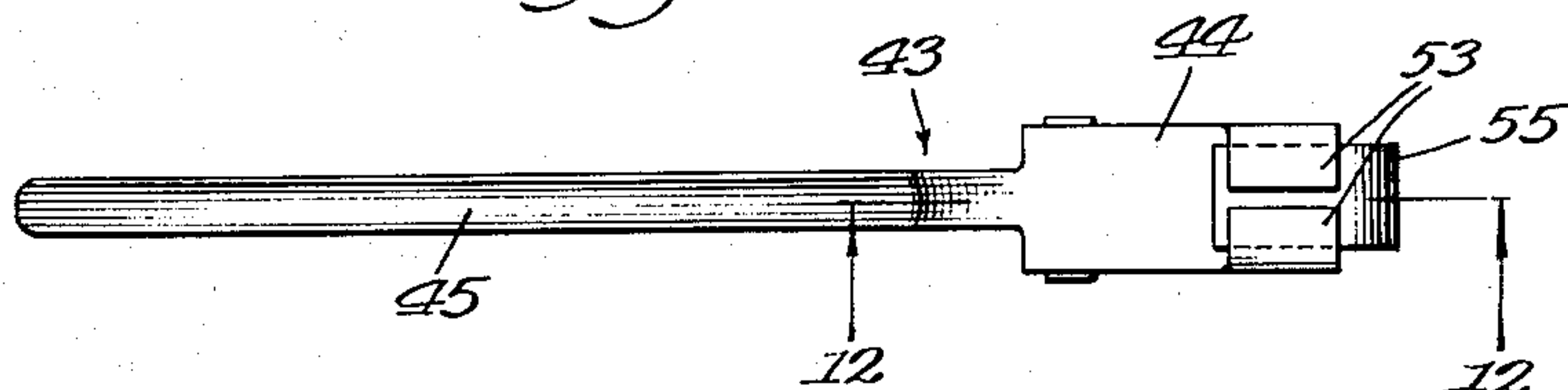


Fig. 10

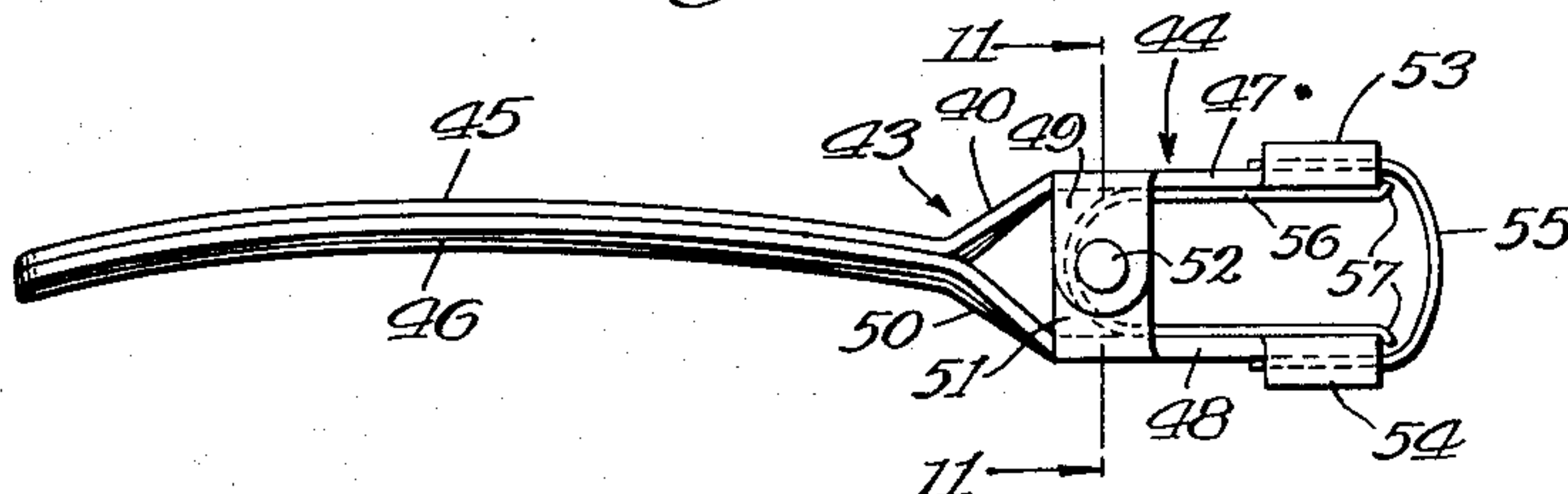


Fig. 11

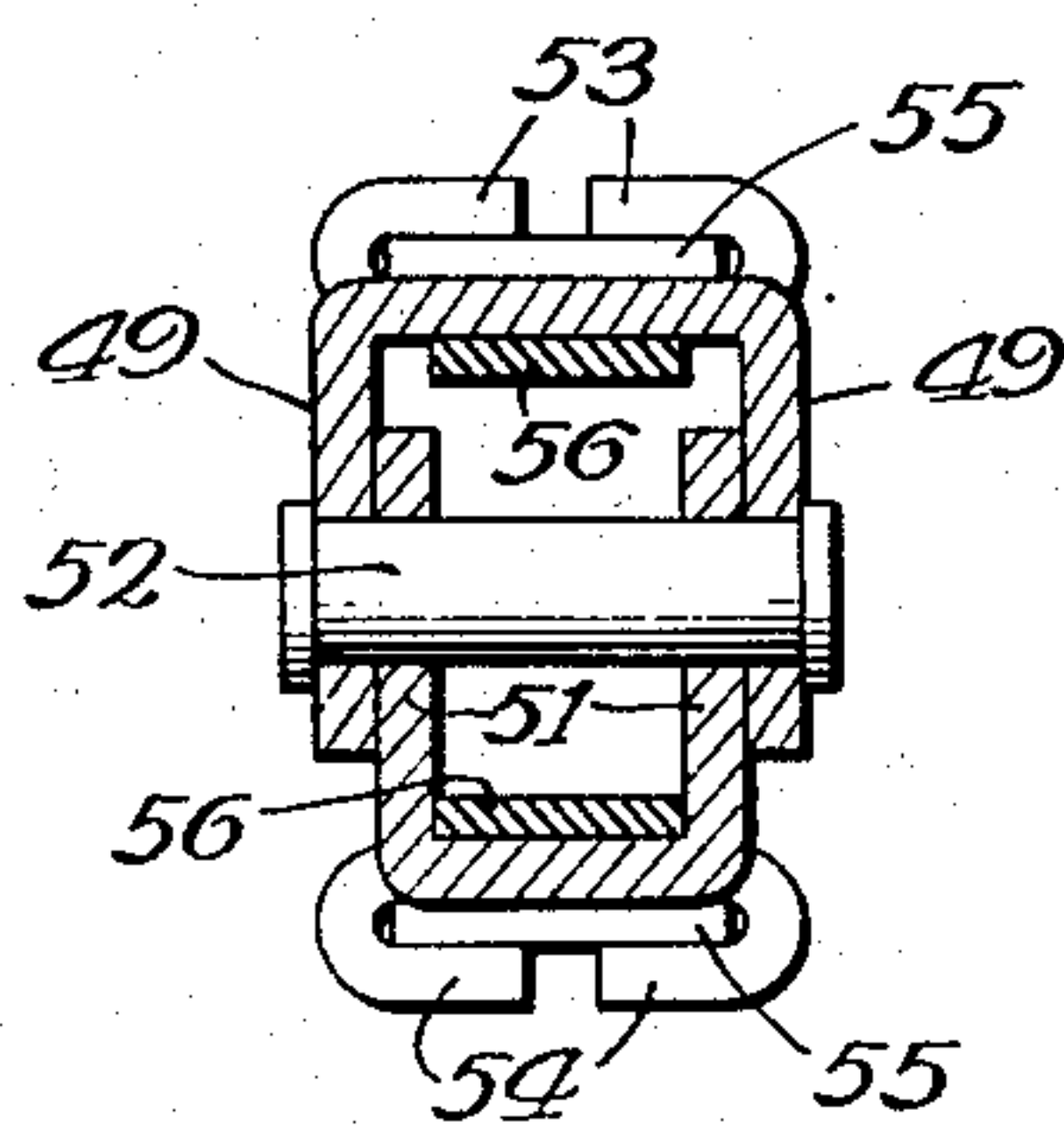


Fig. 12

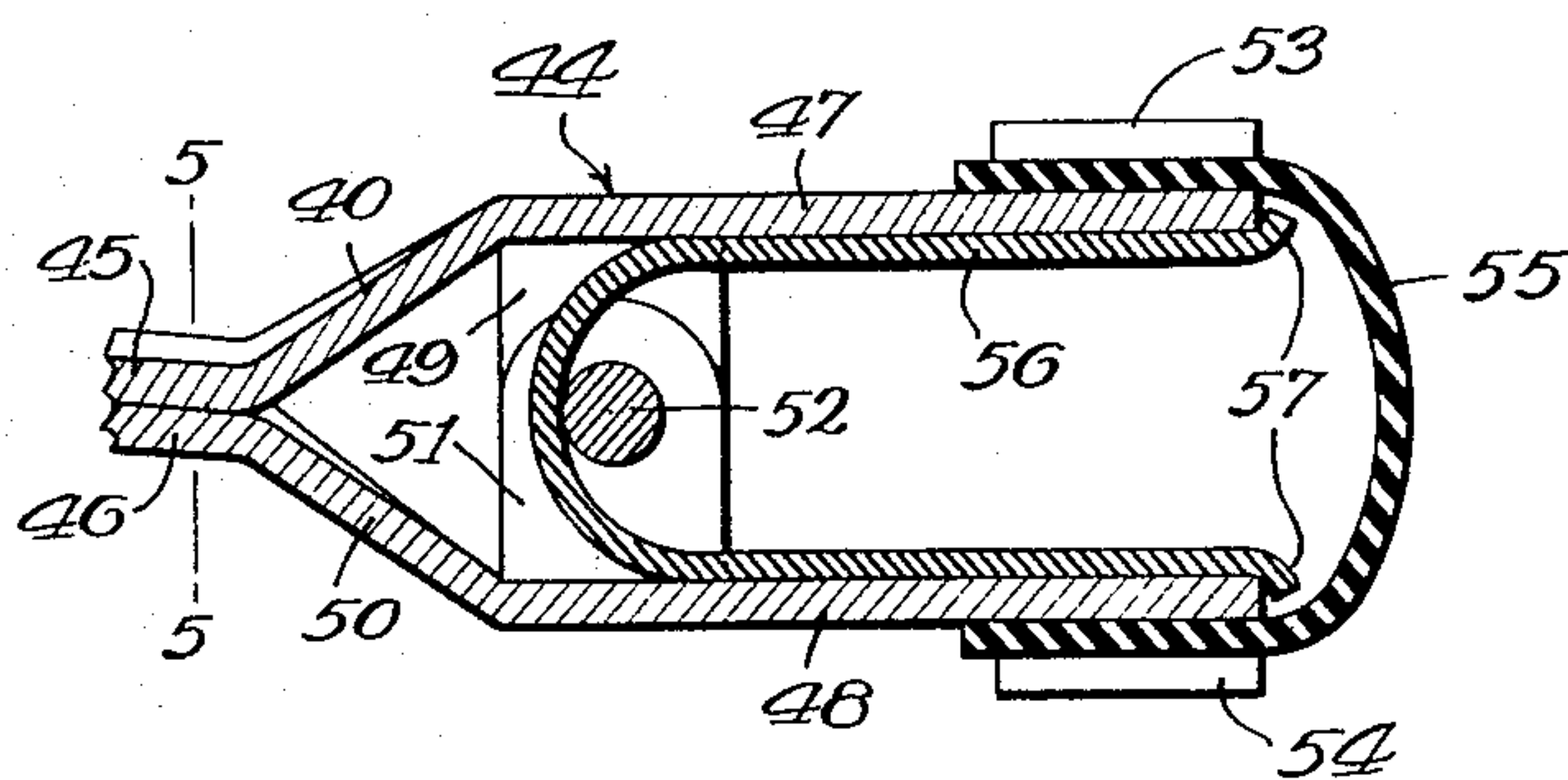


Fig. 13

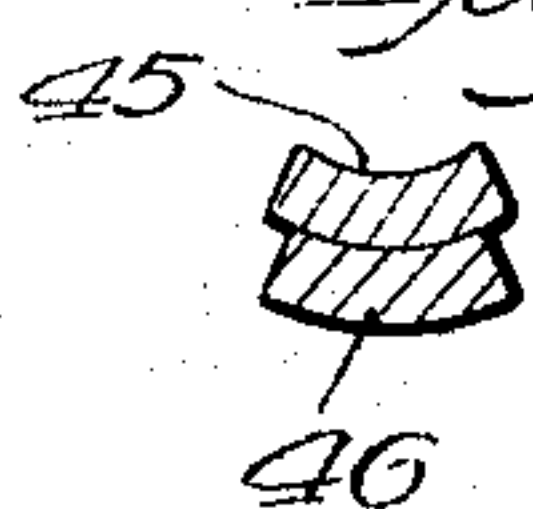


Fig. 14



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UNITED STATES PATENT OFFICE

2,149,214

HAIR CLIP

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Application February 24, 1937, Serial No. 127,397

11 Claims. (Cl. 132—50)

This invention relates to clips or pins employed by hairdressers, known in the trade as "Bobby" pins or hair clips.

One of the objects of the invention is the provision of new and improved "Bobby" pins or hair clips so constructed as to be easily manipulated in applying and removing the same.

Another object of the invention is the provision of novel means for holding the clips and preventing their turning in the fingers while the same are being applied.

A further object is the provision of a new and improved pin or clip that may be removed without becoming entangled in the hair or the net worn by the user.

A still further object of the invention is the provision of a clip or pin that is simple in construction, composed of few parts, easily applied or removed from the hair, inexpensive to manufacture and that is not likely to get out of order or become broken or distorted while in use.

Other and further objects and advantages of the invention will appear from the following description taken in connection with the accompanying drawings in which

Fig. 1 is a plan view of the device on an enlarged scale;

Fig. 2 is a side elevation thereof with parts broken away;

Fig. 3 is a section on the line 3—3 of Fig. 2;

Fig. 4 is a section similar to Fig. 3 but showing a modified form of construction;

Fig. 5 is a view similar to Fig. 4 but showing a further modified form of construction;

Fig. 6 is a perspective view of a portion of the hinge elements shown in Fig. 5;

Fig. 7 is a perspective view of a modified form of construction;

Fig. 8 is an exploded view of the construction shown in Fig. 7;

Fig. 9 is a plan view of a different form of construction;

Fig. 10 is a side elevation thereof;

Fig. 11 is a section on the line 11—11 of Fig. 10;

Fig. 12 is a section on the line 12—12 of Fig. 9;

Fig. 13 is a cross-section of the arms as shown in Figs. 9 and 10; and

Fig. 14 is a view similar to Fig. 13 but showing a modified form of the finger elements.

Referring now to the drawings, the reference character 10 designates a hair clip which, for convenience of description, may be termed a "Bobby" pin since this is the term used in the trade for devices of this general construction.

The clip comprises a pair of finger or clip ele-

ments 11 and 12 which are preferably straight at their outer ends and are adapted to engage each other and be normally resiliently held in engagement. These finger or clip elements are movably connected together at, what for convenience of description will be termed, their inner or rear ends by any suitable means that will permit them to be separated against spring tension.

In the form (shown in Figs. 1 to 6) of the device selected to illustrate one embodiment of the invention, these elements are pivotally connected together. The clip element 11 is provided at its inner end with an upwardly offset rearward extension 13 having, what for convenience of description will be termed, downwardly extending ears 14 and 15. The clip element 12 is provided with upwardly extending ears 16 and 17 at its inner end which engage the outer sides of the ears 14 and 15. These ears are provided with aligned openings through which a pivot pin 18 extends.

The clip or finger elements 11 and 12 are provided with what will be termed rearward extensions 19 and 21, respectively, which are employed for manipulating the finger elements.

Suitable means, as a guard or shield, are provided for preventing the hair or the hair net from becoming entangled in these extensions when the clips or pins are removed. In the form of the device shown in Figs. 1 to 6, these extensions are connected together by a curved connector member or guard 22 that will prevent the hair net or the hair from entering between these portions when the hair clip is removed. Preferably, this connector member or guard 22 is integral with one or both of the extensions and is resilient. As shown in Figs. 1 and 2, the clip element 12 extends rearwardly as at 21 beyond the pivot 18 and is turned upwardly and forwardly as at 23 for forming a handle member 24 for manipulating the clip. The handle member 24 is preferably so constructed that it will not only perform the function of a handle but will also resiliently hold the fingers or clip elements 11 and 12 in contact with each other. This is accomplished by turning the free end of the handle member downwardly as at 25 and extending the same through an opening 26 in the rear end of the extension 19. The end 25 extends downwardly and forwardly and makes a close fit in the opening 26 whereby it will control both the opening and closing of the clip.

The connector member 23 preferably extends upwardly and forwardly in order that pressure may more easily and more effectively be applied to said member adjacent its down-turned end

for flexing the same for separating the fingers or clip elements 11 and 12.

In the use of the conventional hair clip or "Bobby" pin, great difficulty has been experienced in holding the same from turning in the fingers while it is being attached to the hair due to the oily material used in the treatment of the hair getting on the hands and fingers of the attendant in dressing the customer's hair. In order to remedy this difficult, the handle portion 24 is made comparatively wider than the clip elements 11 and 12, whereby turning is prevented. This is considered an important feature of the invention.

One of the clip elements, as the element 12 and its extension 21 are substantially in alignment whereby the clip will lie close to the head of the user without inconvenience or annoyance. The extension 19 is offset from the clip element 11 whereby said elements 11 and 12 will normally be in contact throughout a greater portion of their lengths.

The form of construction shown in Fig. 4 is the same as that just described except that the ears 16a and 17a of the clip element 12a are provided with portions 27 and 28 punched inwardly for engagement in corresponding openings in the ears 14a and 15a of the clip elements 11a for pivotally connecting said clip elements together.

In the form of construction shown in Fig. 5, the upper ends 29 and 31 of the ears 16b and 17b of the clip finger or element 12b are reduced and turned inward and engage in corresponding openings in the ears 14b and 15b of the fingers or clip element 12b for pivotally connecting said fingers together.

Since the remaining structure of the clips or pins shown in Figs. 4 and 5 are identical with the one shown in Figs. 1 and 2, it is not thought necessary to further illustrate or describe the same.

Instead of connecting the fingers or clip elements together by a pivot pin as in the construction shown in Figs. 1 and 2, they may be pivotally connected together by what may be termed a resilient pivot construction.

As shown in Figs. 7 and 8, the hair clip or "Bobby" pin 32 comprises the fingers or clip elements 33 and 34 which are normally in engagement throughout a greater portion of their length as in the previous construction and have rearward extensions 35 and 36. These extensions are connected together by a curved connector member 37, which, in the form of the construction shown, is integral with the rearward extensions 35 and 36 of said clip element. The connector member 37 constitutes a hinge or pivot for the clip elements. It will thus be seen that by pressing the extensions 35 and 36 toward each other, the clip elements 33 and 34 will pivot or fulcrum about the curved member 37 for separating the fingers or clip elements.

Suitable means are provided for forming a shield or guard over the outer ends of the extensions 35 and 36 to prevent them from becoming entangled in the net or hair during the removal of the clips. As shown, a flexible member 38 is employed for this purpose. The member 38 may be of any suitable material as fabric, braided metal strands, or the like. The ends of the shield are connected to the extensions 35 and 36 by a pair of clips 39 and 41. The clips 39 and 41 are preferably wider at their rear ends, as shown at 42, whereby the clips will constitute finger pieces for operating the "Bobby" pin and the wider end portions 42 will constitute means for preventing

the turning of the "Bobby" pin within the fingers while it is being used. The clip element or finger 34 has its rearward extension 36 in substantial alignment therewith, whereby it will lie flat against the scalp without discomfort when in use as in the previously described construction.

In Figs. 9 to 13, inclusive, is shown the preferred form of construction. In this form of the device, the numeral 43 designates generally the hair clip which comprises a body portion 44 and the hair engaging fingers 45 and 46. The body portion 44 comprises the hand pieces 47 and 48 which have hinge lugs 49 and 51, respectively. These lugs are pivotally connected together as by the pivot 52. The hand pieces 47 and 48 terminate at, what for convenience of description may be termed, their forward ends in the fingers 45 and 46.

The fingers 45 and 46 are rigid with, and offset from, the hand pieces 47 and 48. Preferably, each handle and the corresponding finger are integral and are connected together by the bent or connector portions 40 and 50. In cross-section, the fingers 45 and 46 are concavo-convex and are adapted to nest as shown in Fig. 13. By means of this arrangement, the hair is more firmly gripped and at the same time, the fingers are stiffened. Instead of having them nested as shown in Fig. 12, they may be arranged with the convex surfaces in contact as shown at 45' and 46' in Fig. 4. The fingers 45 and 46 may be straight as the forms previously described but are preferably curved as shown in Fig. 10 so they will conform to the curvature of the head.

The hand pieces 47 and 48 have clips 53 and 54 which may be integral therewith and beneath which the ends of a shield or flexible member 55 are inserted and clamped. This shield or member is curved outwardly whereby when the hand pieces 47 and 48 are pressed toward each other, the shield will fold outwardly. By folding the shield outwardly, the hair will not be caught in the fold as would likely be the case should the shield fold inwardly between the finger pieces. The flexible member 55 may be rubber or any other suitable material and functions to prevent the entrance of the hair or the net into the space between the hand pieces.

A suitable spring is provided for normally holding the fingers 45 and 46 into yielding contact. As shown, a U-shaped spring 56 is employed for this purpose. The connecting portion of the spring extends about the pivot 52 and has its ends terminating in burrs or bent or distorted portions 57 which engage the ends of the hand pieces 47 and 48 for preventing the inward movement of the spring or movement toward the fingers during the use of the device. The pivot prevents outward movement of the spring, Fig. 12.

It will thus be seen that in the use of the hair clip, the hand pieces 47 and 48 are of such width that, when taken together with the clips 53 and 54, the fingers will not slip or the device turn while being held and applied even though the hand pieces or handle be wet or oily.

It is thought from the foregoing taken in connection with the accompanying drawings that the construction and operation of our device will be apparent to those skilled in the art and that changes in size, shape, proportion and details of construction may be made without departing from the spirit and scope of the appended claims.

We claim as our invention:

1. A hair clip comprising a pair of clip finger elements, means movably connecting said ele-

ments together and constituting a hinge connection between said elements, a spring for holding said elements in contact, said elements having extensions and a curved guard of smooth, flat, flexible, non-metallic material but slightly resilient for connecting said extensions.

2. A hair clip comprising a pair of clip elements, means for pivotally connecting said elements together, a handle for said clip, said handle being comparatively wide and terminating at its inner end in a looped portion.

3. In a hair clip, a pair of clip elements pivotally connected together and normally in contact throughout a large portion of their lengths at one end, one of said clip elements having an aligned rearward extension and the other having an offset rearward extension, and a looped member for connecting said extensions together.

4. A hair clip comprising a pair of clip members, overlapping ears on said elements, interlocking connections between said ears, one of said elements having a rearward extension provided with an opening through its free end, the other of said elements extending rearwardly and then upwardly and forwardly and terminating in a downward and forward projection extending through said opening.

5. A hair clip comprising a pair of hand pieces movably connected together, each piece having hair engaging fingers connected thereto, spring means for normally yieldingly holding said fingers in contact, said hand pieces extending rearwardly in spaced relation, and a flexible non-metallic shield member connected to the rear ends of said pieces for preventing hair entering between said hand pieces during use.

6. A hair clip comprising a pair of hand pieces pivoted together, a pair of curved fingers rigid with said hand pieces, a spring for normally holding said fingers in contact, and a shield extending around the rear ends of said hand pieces and secured thereto.

7. A hair clip comprising a pair of wide hand pieces, said clips having ears pivoted together, curved fingers rigid with said pieces, said fingers being concavo-convex in cross-section and normally nested, a flexible shield curved about the

outer ends of the finger pieces, clips on said pieces for securing the ends of said shield, and a U-shaped spring extending around the pivot of said pieces between said hand pieces and having its ends distorted and engaging the ends of said hand pieces for holding said spring in position.

8. A hair clip comprising a pair of clip elements pivoted together, said elements having portions extending rearwardly beyond the pivot, and loop means of non-metallic flexible material but slightly resilient forming a loop for preventing hair from entering between said elements at their inner ends.

9. A hair clip comprising a pair of clip elements, means for normally resiliently holding said elements in contact, said elements having rearward projections normally out of contact and connected together at their outer ends by a non-metallic flexible member but slightly resilient forming a loop in the plane of said elements for preventing entry of the hair between said projections.

10. A hair clip comprising a pair of clip elements, means for normally resiliently holding said elements in contact, one of said elements having a rearward extension and the other having an offset rearward extension, and a curved member for connecting the rear portions of said extensions together for preventing the entrance of hair between said extensions while in use, an end of said curved member extending over said offset rearward extension and secured thereto, thereby forming a grip for the fingers of the operator.

11. A hair clip comprising a pair of clip elements, pivot ears on said elements, a pivot pin for connecting said ears together, a resilient looped member connected to said elements for normally resiliently holding said elements in contact throughout a portion of their lengths, and a non-metallic flexible guard curved longitudinally thereof extending about the inner end of said clip and having its ends secured to said elements on the outer sides thereof for preventing the entrance of hair therebetween while in use.

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