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1,996,183

ORNAMENTAL WIRE

Filed March 30, 1932

Fig. 1.



Fig. 2.



Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.

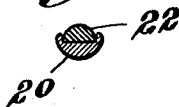


Fig. 8.



Fig. 9.



Fig. 10.



Fig. 11.



Fig. 12.



Fig. 14.

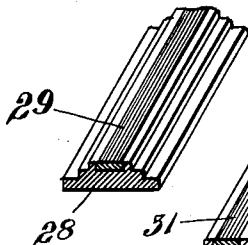


Fig. 13.

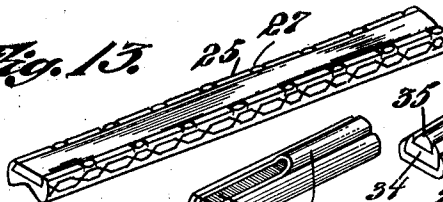


Fig. 16.

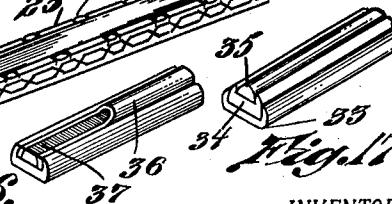


Fig. 17.

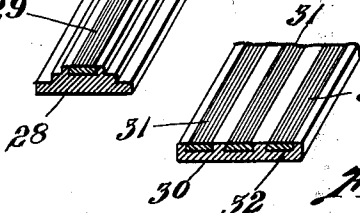


Fig. 15.

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UNITED STATES PATENT OFFICE

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ORNAMENTAL WIRE

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Application March 30, 1932, Serial No. 602,004

1 Claim. (Cl. 29—182)

This invention relates to an ornamental wire such as may be made into articles worn on the person, and has for one of its objects to provide an ornamental wire having portions of different colors.

Another object of this invention is the provision of a wire having two or more colors by the inlaying of a wire of one color in a wire of a different color and the maintaining of the parts in assembled relation by any desired means.

Another object of this invention is the simple method of forming a wire of two colors by the use of two different materials and securing the two together by a suitable rolling or drawing process.

Another object of the invention is the method of grooving, and shaping the desired parts to be assembled and the deflecting of the stock of the parts so that they will be maintained in assembled relation all by the use of rolls or draw plate through which the stock may pass to be easily and quickly formulated.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claim.

In the accompanying drawing:

Figs. 1 and 2 are respectively a section and a top plan view of the round stock from which my composite wire is formulated.

Figs. 3 and 4 are respectively a section and a top plan view of one member after passing through the grooving rolls.

Figs. 5 and 6 are respectively a section of and a top plan view of the inlay member of the composite wire.

Figs. 7 and 8 are respectively a sectional view and a top plan view of the inlay member positioned within the groove in the body member of the wire.

Figs. 9 and 10 are views similar to Figs. 7 and 8 with a composite wire after being passed through rolls to deflect the parts to secure them together.

Figs. 11 and 12 are views similar to Figs. 9 and 10 showing the further operation of forming a groove on the inner side of the wire where used for an eye wire.

Fig. 13 is a perspective view of the wire ornamented by surface embellishment.

Fig. 14 is a perspective view of a section of wire of modified form showing a fancy configuration.

Fig. 15 is a perspective view of a section of wire showing a further modification and with a plurality of inlays in a single strip of wire.

Figs. 16 and 17 are perspective views of further

modifications showing three different nesting wires.

In the formation of different articles to be worn on the person, such, for instance, as ophthalmic mountings for eye glasses or spectacles, chain links, bracelets, rings and other similar articles, it is desirable to form the parts composing these articles of an ornamental appearance, and in order to enhance that appearance I have formed the same of stock of different colors such that one color may form a stripe with reference to the other, and I have provided a method by which such wire may be formed in a simple and inexpensive manner by passing the same through rolls or draw plate to manipulate the stock to obtain the desired formations for ornamentation and for securing the parts together one with reference to the other without the use of solder; and the following is a detailed description of the present embodiment of this invention illustrating the preferred means by which these advantageous results may be accomplished.

With reference to the drawing, I will describe the different steps which I use for forming my improved ornamental wire.

Figs. 1 and 2 show a round wire of solid stock which is passed through a set of rolls causing the same to be formed as shown in Figs. 3 and 4 with a groove therein which forms the body member or one part of the composite wire. A strip is formed half round as illustrated in Figs. 5 and 6 by a suitable drawing or rolling operation and then laid in the groove with its inner surface in contact with the bottom surface of the groove as illustrated in Figs. 7 and 8, after which the edge portions of the body member are rolled over the edges of the inlaid stock as illustrated in Figs. 9 and 10 to secure the parts in assembled relation.

The parts are of different material such as different color golds, as green and yellow, red and white or any other various color combinations, or these colors may be had by using certain alloys of the non-precious metals or other combinations which will give a different appearance to the stock, thus the inlay of the member causes a stripe to be formed along the outer surface of the stock to form a contrasting appearance therewith, and by rolling over the stock at the edges I provide a solderless means by which the two parts are attached together.

In Figs. 11 and 12 I have illustrated the wire as grooved as at 26 on its inner side for use as an eye wire in ophthalmic mountings for encircling the lens.

In Fig. 13 I have shown the marginal edge of the top portion 25 and also the side edges of the wire as ornamented, which is accomplished by passing the assembled length of wire through another set of rolls having a design thereon to suitably embellish the wire as at 27 and further enhance the ornamental appearance thereof.

In some instances a body member or base wire may be formed of various shapes such as illustrated at 28 in Fig. 14 with an inlay 29 therein, the same being rolled over as above described to hold the inlay therein or other various shapes may be used. A further modification is illustrated in Fig. 15 showing a wide strip of wire 30 in which a plurality of grooves 32 are provided in the surface of the strip 30 and into each one of these grooves there is laid a member 31 similar to member 22 which may be of any desired cross-sectional shape and where more than one inlay is provided these may be each of a different color, for instance the base member might be made of yellow gold and the inlays of green, red and white gold as required to provide the desired ornamental appearance, or various alloys or other materials having different characteristic colors may be used to provide this contrasting effect.

In Fig. 17 a further modification is shown in which the outer member 33 is grooved to receive the intermediate member 34 which in turn is grooved to receive another member 35 and so on as desired. In this case each one is laid in its groove and then all together are rolled in to secure them together. In other instances, as shown in Fig. 16, the insert 36 has a core 37 of different material which is exposed by cutting away the stock to expose it.

The inlay member also may have a different temper than the stock in which it is inlaid. For instance, it may be harder to give more resiliency or desired stiffness in certain uses, as well as to provide an ornamental appearance. In such case

the outer stock being soft is more manipulatable for deflecting and working and thus both the quality of ductility, for easy working, and of stiffness may be had in a single article.

The wire may be formed by a suitable drawing process through die plates equally as well as by rolls. Where small sizes are used, the wire may be passed through the usual "turks head" consisting of four rolls, although where heavy stock is to be used, it will be necessary to form the same in a rolling mill.

By this simple method a wire of the variety of ornamental appearances may be had, which may be used in articles of personal wear such as ophthalmic mounting, chain links, bracelets or rings, and will be so combined as to provide a desired color scheme to harmonize with the complexion of the wearer or where some particular color characteristics may be desired to be emphasized.

The foregoing description is directed solely towards the construction and method disclosed, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the disclosure is susceptible, the invention being defined and limited only by the terms of the appended claim.

I claim:

An eye wire for an ophthalmic mounting comprising a length of wire having a groove in its inner surface, a groove in its outer surface having side walls on each side and a metal member in said outer groove flush with the edges thereof and of an appearance contrasting with that of the wire in which said groove is formed with the side walls bent inwardly to extend over the edges of said member in said groove and the outer surface of said wire being depressed to form a surface embellishment.

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