Nov. 24, 1953 E. F. ZORE 2,659,983

PATTERN TOOL

Filed May 23, 1949

Fig. 1.

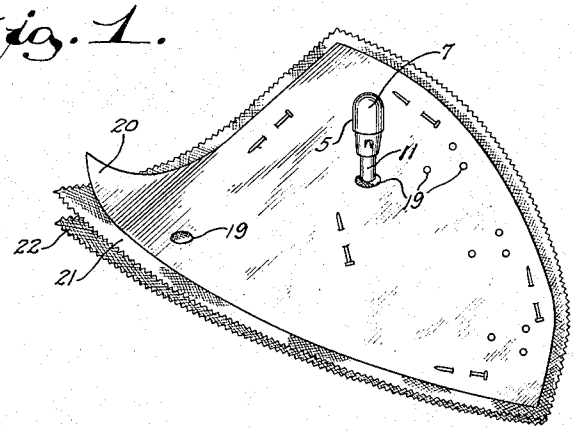


Fig. 2.

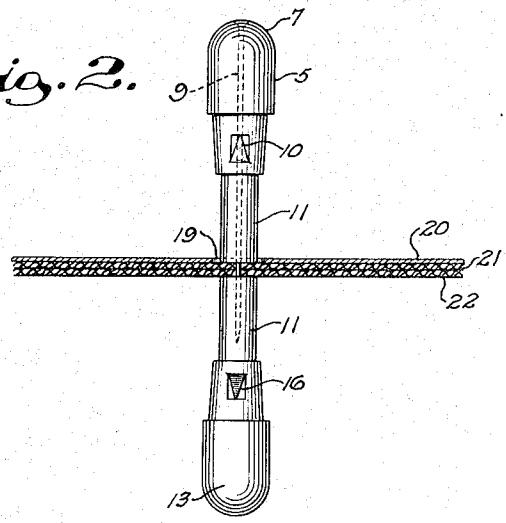
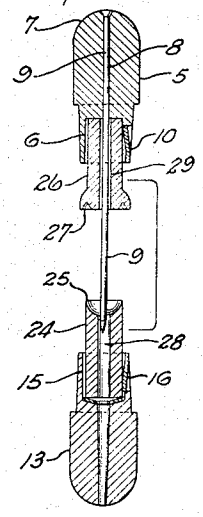


Fig. 5.



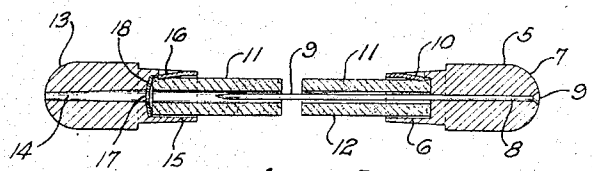


Fig. 3.

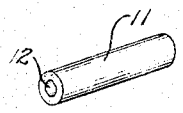


Fig. 4.

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PATTERN TOOL

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7 Claims. (Cl. 33—189)

1

This invention relates to improvements in pattern tools and more particularly to pattern tools adapted for use by dressmakers and tailors.

When a pattern is used for making an article of clothing, such as a dress or suit, corresponding pieces of cloth, such as the right and left sleeve portions of a suit, are usually cut simultaneously by placing the two layers of material together, pinning the pattern to the top of the double layer, and then cutting the two layers on the outline. Most sections of pattern also contain holes or printed dots for use in marking the location of pockets, pleating, darts or the like.

In the past it has been common practice to insert basting thread through the plural thicknesses of cloth at these holes or dots, the threads being cut as each piece of cloth is lifted off so as to leave a short piece of thread in each piece of cloth for marking purposes. This method is time consuming, inconvenient, and not entirely satisfactory. It has heretofore been proposed to furnish marking tools for the purpose of making chalk marks on two pieces of cloth simultaneously. However, the tools that have so far been proposed have embodied levers or arms which extend both above and below the fabric, the levers being connected in some type of scissors fashion. This necessarily limits the distance from an edge that marking may be performed and requires a relatively complicated and expensive instrument.

It is a general object of the present invention to provide a simple and inexpensive instrument for accurately marking top and bottom layers of material to correspond with holes or perforations in a pattern, the said instrument being operable at any desired distance from an edge.

A further object of the invention is to provide a pattern tool having interchangeable inserts, one set of inserts being in the form of cutters, and the other set of inserts being in the form of crayons, the said cutters being used to cut perforations in those patterns which employ merely printed dots to thereby prepare this type of pattern for use in a marking operation.

A more specific object of the invention is to provide a pattern tool including a pair of holders, one of the holders having an elongated pin projecting axially therefrom which is insertable in a receiving bore of the insert of a like holder to positively aline the two holders on opposite sides of material for either cutting or marking purposes.

With the above and other objects in view, the invention consists of the improved pattern tool, and all its parts and combinations, as set forth in the claims, and all equivalents thereof.

2

In the accompanying drawing, illustrating one complete embodiment of the preferred form of the invention, in which the same reference numerals designate the same parts in all of the views:

Fig. 1 is a perspective view showing the pattern pinned to two pieces of cloth and showing the improved tool in use for marking;

Fig. 2 is a sectional view on an enlarged scale through a fragment of the cloth and pattern of Fig. 1, showing the tool in elevation and in operative position;

Fig. 3 is a longitudinal sectional view through the tool showing the crayon inserts;

Fig. 4 is a perspective view of one of the crayon inserts alone; and

Fig. 5 is a longitudinal sectional view of the tool showing it equipped with cutting inserts instead of crayons.

Referring more particularly to the drawing, the numeral 5 indicates one of the pair of holders which together comprise the marking device. The holders are made of metal, plastic or other suitable material. Holder 5 is generally cylindrical in shape and has a socket 6 formed at one end, its other end being substantially semi-spherical as at 7 so as to form a comfortable gripping section. The holder 5 is axially bored as at 8 so as to provide a snug fit for an elongated pin 9 which is forced through the bore 8 from the end 7 so as to project from the socket 6 at the opposite end. The socket 6 has associated therewith a cut out and inwardly offset tongue portion 10, preferably as an integral part of the holder 5. This tongue 10 serves to securely retain an insert such as the piece of crayon 11, the said insert having an axial bore 12 through which the elongated pin 9 is adapted to extend. The crayon 11 is sufficiently long to project substantially from the socket 6 and yet allow a substantial length of the pin 9 to project beyond the end of the crayon 11. The term "crayon" includes chalk, graphite, pencil, or any similar writing material.

The other holder 13 of the pair is constructed quite similarly to holder 5, except that the axial bore 14 of the second holder 13 is of such a size as to permit the pin 9 to freely pass therein. There is also provided a socket portion 15 which is adapted to receive a second axially bored crayon 11 in a manner similar to holder 5. It is preferred that the inner end of the socket 15 be provided with a metal washer 17 of slightly concave contour, corresponding to the concave end 18 of the socket portion 15, said washer preventing the point of the pin 9 from sticking or getting caught in the concave end portion 18 of

the socket, and said washer serving to guide pin 9 into the axial bore 14 of the holder 13 after the chalk is worn down.

Fig. 1 shows a top layer 21 and a bottom layer 22 of material having a pattern 20 pinned to both layers. These layers 21 and 22 have already been cut to the general shape of the pattern and are in a position to be marked by the improved marking device.

In use of the tool with a pattern having perforations, such as at 19, the holder 5 is held over one of the openings 19 in the pattern 20 and the pin 9 is forced through the layers 21 and 22. The pin 9 is preferably centered in the opening 19 before piercing. Next, the other holder 13 is held so as to allow the projecting portion of the pin 9 to enter the axial bore 12 of the crayon 11. The holders are then moved toward one another in their alined position into contact with the surfaces of the material, as shown in Fig. 2. Then by rotating the holders, markings are made simultaneously on both the top layer 21 and bottom layer 22, at points corresponding exactly to the openings 19 in the pattern 20.

It is to be noted that the same piece of crayon 11 may be used in either of the two holders and that the crayons are readily removable so that when worn by continual use they can be easily replaced by new pieces.

If the pattern is of a type having printed dots instead of the holes 19, then the pieces of crayon 11 may be removed from the holders and replaced with the inserts 24 and 26. The insert 24 forms a male cutting element having a circular knife edge 25. The insert is also provided with an axial bore 28.

The insert 26 provides a female cutting element and has a circular end groove or recess 27 for coaction with the cutting edge 25 of the element 24. The cutting element 26 is also axially bored as at 29.

With the pattern tool thus equipped the pin 9 may be inserted through the printed dot of a pattern and then into the bore 28 of the cutting element 24 in the holder 9 therebelow. Then by pushing the members together and rotating, a hole may easily be cut concentric with a printed dot on the pattern. After all of the printed dots have been cut out, then the cutting elements 24 and 26 are removed and replaced with the crayons 11 so as to be ready for marking.

It is to be noted that regardless of whether the tool is to be used for cutting or marking, the construction is essentially the same in that the inserts, whether in the form of crayons or in the form of cutters, are easily alined by reason of the action of the pin 9 in entering the receiving bores therefor. It is also apparent that both cutting and marking are accomplished by relative rotation of the holders.

Various changes and modifications may be made without departing from the spirit of the invention, and all such changes are contemplated as may come within the scope of the claims.

What I claim is:

1. A pattern tool for tailors or the like comprising a first holder having a socket therein, a pin projecting axially from said socket, a second holder having a socket formed therein and having a bore in axial alinement with said socket and inwardly thereof, a pair of inserts, the socket of each holder being formed to removably receive one of said inserts and said inserts having axial bores, the bore of one of said inserts being positioned to accommodate a portion of the length of the pin of the first holder when the insert is in position in said first holder, and the bore of the other insert being adapted during use to removably receive the end of said pin when said second insert is positioned in the socket of said second holder, the bore of the last mentioned insert being in axial alinement with the bore of its holder.

2. A pattern tool for marking oppositely disposed surfaces of material at alined points comprising a first crayon, a second crayon, and an alining pin carried by said first crayon and insertable through said material, said second crayon having an opening for receiving said pin.

3. A pattern tool for marking oppositely disposed surfaces of material at alined points comprising a first crayon, a second crayon, and an alining pin carried by said first crayon and insertable through said material, said second crayon having an opening for rotatably receiving said pin.

4. A pattern tool comprising a first holder having a socket therein, a pin projecting axially from the socket of said first holder, a second holder having a socket formed therein, a marking element in the socket of each holder, said marking elements having axial bores, the bore of one of said elements being positioned to accommodate a portion of the length of the pin of the first holder, and the bore of the other element being adapted to removably receive the end of said pin to aline the marking elements during use.

5. A pattern tool for tailors or the like, comprising a first holder having a socket therein, a pin projecting axially from said socket, a second holder having a socket formed therein, a pair of marking inserts, the socket of each holder being formed to removably receive one of said inserts and said inserts having axial bores, the bore of one of said inserts being positioned to accommodate a portion of the length of the pin of said first holder when said insert is positioned in said first holder, and the bore of the other insert being adapted during use to removably receive the end of said pin when the other insert is positioned in said second holder to aline the inserts.

6. A pattern tool for tailors or the like, comprising a first holder having a socket therein, a pin projecting axially from said socket, a second holder having a socket formed therein, a pair of marking inserts, the socket of each holder being formed to removably receive one of said inserts and said inserts having axial bores, the bore of one of said inserts being positioned to accommodate a portion of the length of the pin of said first holder when said insert is positioned in said first holder, and the bore of the other insert being adapted during use to removably receive the end of said pin when said other insert is positioned in said second holder to aline the inserts for use, and means on each holder for retaining the insert against accidental displacement.

7. A pattern tool for tailors or the like, comprising a first holder having a socket therein, a pin projecting axially from said socket, a second holder having a socket formed therein and having a bore in axial alinement with said socket and positioned inwardly thereof, a pair of marking inserts, the socket of each holder being formed to removably receive one of said inserts and said inserts having axial bores, the bore of one of said inserts being positioned to accommodate a portion of the length of the pin of the first

holder when the insert is positioned in said first holder, and the bore of the other insert being adapted during use to removably receive the end of said pin when said insert is positioned in the second holder to aline the marking inserts for use, the bore of said second holder being positioned to receive said pin after the marking inserts have become worn.

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