

Utilization of Functional Fabric Fasteners

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Abstract – Fasteners simply a device which is used to affixes two or more gadget together.” This paper is based on experiments that shows, how effective use of functional fasteners in decorative way. Fasteners basically have a very functional role in a garment and used to close placket opening in proper way. Hook & Eye, button & buttonhole, snaps are some examples. In addition, other Fasteners serve as electric element to garment. Moreover It prominent the area of dress. The best example of decorative fasteners are frog, brooches, safety pins etc. This kind of fasteners close the placket opening on temporary basis along with create an emphasis in a garment. It is very obvious that such fasteners may easily designate the focal point in an outfit but, the functional fasteners can also perform tremendously in aesthetic way and with the help of them we can execute admirable product as well. The main purpose of functional fasteners are used to secure placket opening strongly but, here the interesting feature is that it can be used for making jewelry and surface ornamentation of garment. I know it is quite difficult to imagine how zipper fasteners can converted into beautiful necklace, finger ring , earring etc. but it's possible. so, there are numerous ideas which has its own peculiarity and uniqueness .

Keywords – Snaps, Fasteners, Electric element, frog.

I. INTRODUCTION

Fasteners are the vitally important part in a garment used to hold two pieces of material together. Mostly, it is used to close the placket opening correctly. Simply it is a single item that often makes a sound when it comes in a contact to one another. E.g. snap fastener, when it is opened and closed. I give a sound of Tic-Tack. Fastener can be classified in to two.

That is temporary & permanent. Permanent fastening such as, stitching and fusing. It simply sewn by hand or by machine. Hook & eye, button & buttonhole, zipper etc are some example of permanent fasteners.

On the other hand, temporary fasteners are detachable it can be removed easily from the garment because, they don't sewn like beaded safety pins, brooches etc. here, I would like to bring in my viewers notice that functional fasteners can be remarkable if we use them in decorative style. Lets understand about the fasteners in detail.

Types of Fasteners

- Button & buttonhole
- Zipper
- Hook & Bar
- Press studs
- Frog (Chinese frog)
- Grommet
- Safety pins
- brooch

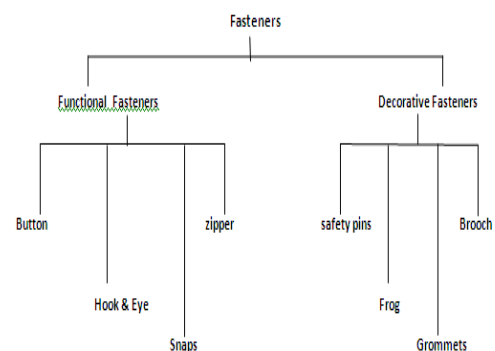


Fig.1 Functional diagram

II. FUNCTIONAL FASTENERS

1. Buttons Button is very convenient fastener mostly made of plastic, wood, metal, fabric etc. typically available in round shape. It can secure two pieces of material together. Instead of clothing, it may also be used in accessories such as wallet, bag, purses etc. however, a dress maker or creative artist knows that, how to use button exclusively in a dress and accessories etc.

Types of buttons

- Flat button
- Printed button
- Wooden button
- Mounded button
- Shank button
- Metallic button
- Decorative buttons

- **Flat buttons** The most commonly used button are flat buttons easily available in market in different sizes and material usually have two or four holes in center for tucking.
- **Printed buttons:** Simply have some kind of motif on the surface.
- **Wooden buttons:** They can be used for both purposes functional and decorative. These buttons usually delicate. That is why it has a less life time.
- **Mounded button:** These are mostly made from the scraps of fabric. Fabrics are simply mound on the metal part of button.
- **Metallic button:** They are used in jeans and denim, trousers etc.
- **Shank button:** These button look rather like a ring with an over sized diamond in them. Shank button stand straight on the fabric.
- **Decorative buttons:** These are made of beads and sequins to add the richness in a garment.



Metallic shank buttons



wooden buttons



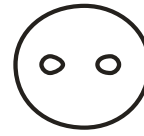
Flat buttons.

Buttons are normally categories on the basis of its size, material and holes.

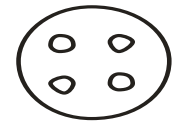
Sizes of buttons buttons are available in different sizes such as 12L, 16L, 18L, 24L, 28L, 32L, and 36L. etc.

According to holes-According to the number of holes buttons are available in two styles.

- **Two holes button-** it consists at least two holes in the centre of button. The holes usually lined up parallels to the edge that is fastening.
- **Four holes button-** it consists at least four holes in the centre of button. We can tuck them in different styles.



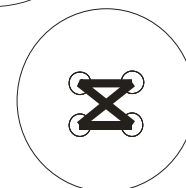
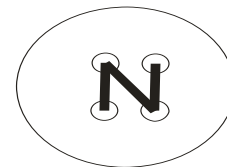
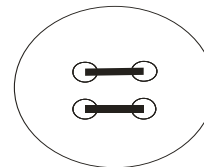
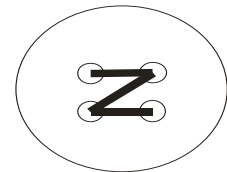
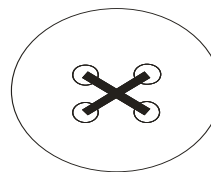
Two holes button



four holes button

2. Working method of sew button

- Take a button according to the button hole (if you are using button functionally. So, firstly measure the length of button hole and choose the correct size of button).
- Now, needle the thread and tie it with a knot.
- Place the button on the top of the material at its correct position and thread through the material, pulling tight.
- Continue pass the thread from the material to button eyehole until it secure. If the button is of four holes you can create these design as shown in figure.
- End with the needle on the material side and double knot it.



3. Functional use of buttons

Buttons are most commonly used in Gent's shirt, Pants, coats etc. to close the placket opening correctly. it usually deals with button holes. There are different types of button holes such as machine sewn buttonhole, inseam button hole, faced buttonhole, fabric loop buttonholes. A use of button & button hole depends on the types of garment.

4. Decorative use of buttons in clothing & accessories

It depends on the creativity how to use. Designs that has created is based on experiments.



Fig.2

Buttonhole



Fig. 3 stitch

This beautiful necklace is made of flat 2 holes button (in plastic) by using buttonhole stitch. It looks stunning as shown in fig.(a). Another one is also made of flat button in brown color tied with the help of six stands of rayon floss in fig.(b). With the help of button you can create fantastic products. Here, it don't use to create jewelry but also give a beautiful touch to clutches and purses.



Fig.4

There is an extremely wonderful idea of using colorful fabric mounded buttons on clutch as shown in fig. (c)



Fig.5

Creamy and white plastic button used on the surface of

of using colorful fabric mounded buttons on clutch looking stunning. Ready to use for evening party. as shown in fig.(d)

here, there is no end of creativity its limit less. Buttons may also be used in tapestries, on lamps, walls etc.

5. Zipper

Zipper is the fastening device most commonly used to close the opening of jackets, pants, fitted garments, designer blouse, top etc. it gives a fine finish as well as good appearance to the garment.

Types of zippers

- Metallic zipper
- Coil zipper
- Plastic molded zipper
- Close ended zipper
- Invisible / conceal zipper
- Open end zipper (separating)

6. Metallic zipper This type of zipper available in many lengths and in many makes. Like shiny gold zipper, aluminum zipper, nickel etc.

- **Coil zipper:** This type of zipper are in lightweight and also available in different length. They are made of plastic with polyester sides.
- **Plastic molded zipper:** They are mostly used in hoodies, jackets, sportswear etc. it look very attractive and also known as parka zippers. They are in lightweight and rustproof.
- **Close ended zipper:** It can't be separated and are normally closed and opened with a slider. These zippers used in trousers, bags, boots etc.
- **Conceal zipper:** Zipper teeth is almost hide when it stitched on a seam except for its pull. Mostly use this on the back of dresses and the side seam of tight fitting dresses.
- **Separating zipper:** This type of zipper have separated end mostly used in jackets and other outwears.

III.CONSTRUCTION OF ZIPPER BY SLOT SEAM METHOD

- Close placket opening temporarily by basting.
- Press seam allowances open.
- Close the zip and place it right side facing on the wrong side of the garment. The centre of the zipper should be fall exactly on the tacked seam line. Match bottom of the metal part of the zipper to bottom of tacking seam line. Tack zipper as shown in fig. (1)
- Turn the garment to the right side and stitch it from the neck edge down along one side, across the

bottom and up the other side of zipper as shown in fig.(2)

- Now, remove tacking and press the garment.
- Do slip stitch the edge of the seam allowances to the zipper tape on both sides without catching the garment to prevent curling the tape as shown in fig.(3)
- Fig. (4) Shows the finish appearance of the zipper placket.

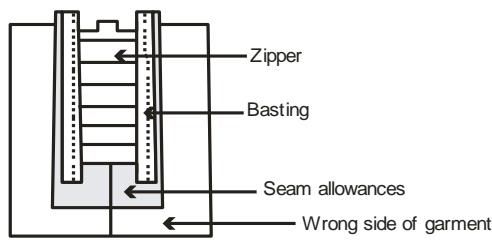


Fig.6

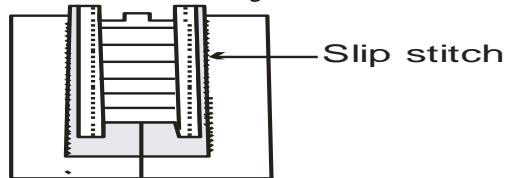


Fig.7

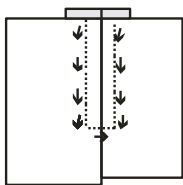


Fig.8

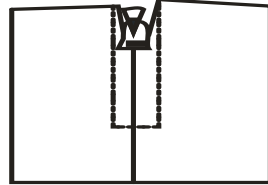


Fig.9

IV.DECORATIVE USE OF ZIPPER FASTENER AND ITS WORKING PROCESS



Fig.10 a pretty butterfly shape necklace of metallic zipper Giving a graceful effect.

1. Working method

- Take metallic zipper in two colors pink and blue. You can add three or four colors. It depends upon your choice.
- Now fold the blue zipper of 10inches in this manner such as both ends should meet to each other and secure them by tacking or you can use glue.
- Centralized the tacking area of each layer.

- Now prepare at least five layers of zipper in two groups of different colors.
- The size of II layer can be of at least 15inches. III will be of 20 inches. So make difference of 5 inches among the each layer.
- Arrange them to all layers which shows bow like shape.
- Take eight strips of 10inches that will be use to hide the tacked area of layers.
- Now take 4strips of zipper according to neck measurement with metallic hook and loop and attach it with the centre part.
- Finally assemble all parts of zipper as shown in diagram.



Fig.11Tacking of zipper layers

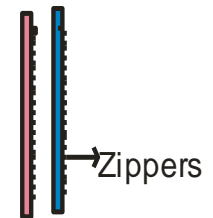


Fig.12separate both side of zipper

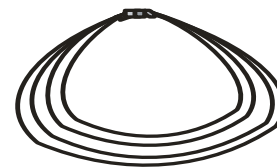


Fig.13 Third part for neck circumference at least four times.

2. How to fold zipper

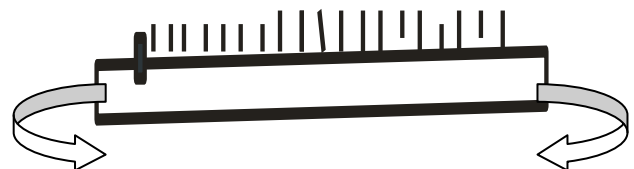


Fig.14

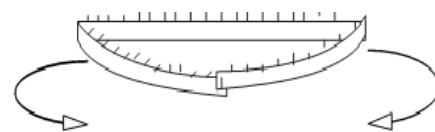


Fig.15

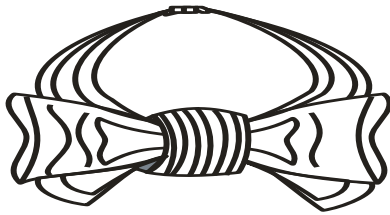


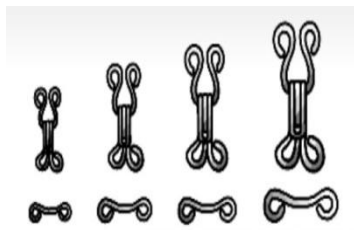
Fig.16 Assemble all parts of zipper and convert it into a classy necklace

Other beautiful styles of necklaces is given below



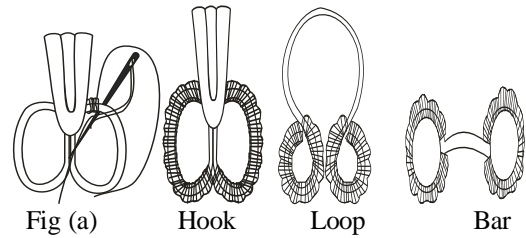
Fig.17 Simply made a stylish knot Technique of fold in (simply roll on)

2. Hook & Eye Hook and eye is very small and secure fastener. It consists of a metal hook bent to the required shape and the eyelet of the same material. Sometimes made of thread by using button hole stitch into which the hook is fit. It is mostly used in children garments, blouses, brass, corset etc. These are available in wide ranges in both black and white color. They are more secure comparison to snap fasteners.



4. Working method how to sew hook & bar

- It can be attached by using buttonhole stitch because it is the strongest stitch.
- First of all take the position of hook on the garment and hold it in a place by several stitches.
- Now bring the needle to the outside of the base of the hook on the right hand side work buttonhole stitch as shown in fig. (a)
- Then insert the needle from the outer to the inner edge.
- Find the position of the eye, and buttonhole stitch it into position in a similar way.



5. Decorative use of Hook in dresses



Simple hook and loop is creating an emphasis in a dress. It totally changes the outlook of these outfits. They are performing functionally as well as in a decorative way.

6. Snaps

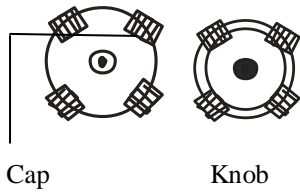
These fasteners are also known as press-studs, poppers, or tich. simply a pair of interlocking disc. These are used to hold openings together where, there is little strain on the garment. These can be made of plastic or metal consist of two working parts mostly called “knob & cap” which are locked together when comes in a contact to each other. They are available in different sizes and styles as shown in diagram



Different size is available Different styles of metallic snaps.

7. Working method how to sew snap fastener:

- First of all marked the position of fastener on the under lap side and start with a back stitch and fix the fastener in position by taking one stitch and fix a fastener in position by taking one stitch in each hole.
- Now go back to the first hole, push the needle through the fabric and up through hole.
- Then wind the double thread from the eye of the needle towards you, thus making buttonhole stitches.
- Work at least four or five buttonhole stitches to each hole. Then, finish it with the back stitch.
- Make a threaded eye by using buttonhole stitch. If needed.



8. Utilization of press studs in decorative way and exciting feature in a form of jewelry.



Undoubtedly, other fasteners also enhance the beauty of garments known as decorative fasteners. Like safety pins, grommets, frog fasteners etc.

9. Decorative Fasteners

9.1 Frog fasteners It is also known as Chinese frog consist a button and a loop .This type of fastener is only use for decoration purpose as it will collapse if subjected to strain. These are made from cord, rouleau or braid and mostly used in shirt or coat with a mandarins collar. It can also be used in dresses for girls and depend upon your choice.

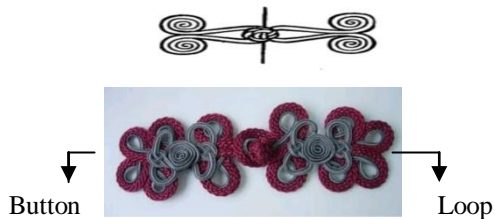
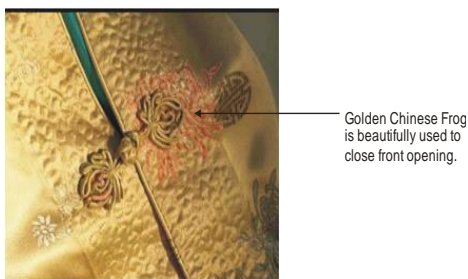


Fig.18 Maroon and grey macramé frog fasteners for closure

9.2 Use of frog fastener in a dress.



9.3. Safety pins

Safety pins are most commonly used to fasten two or more pieces of fabric together. Similarly, they can be used to patch torn or damaged clothing. The most common metals used in safety pins are spring steel, brass, plastic and stainless steel. This type of fasteners

is used for temporary basis. The functional purpose of this fastener is to hold 'Saree Pallu' & pleats also. But, now a day they have introduced in a fashion field in a very unique style.



Fig.19 Basic structure of safety pin

9.4 Types of safety pins available in market.



Fig.20 Stainless steel pins

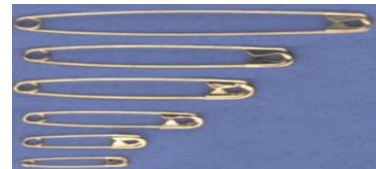


Fig.21 These Golden stainless steel pins available in different sizes like 0,1,2,3,4 & 5.

9.5 Decorative use of fasteners in a dress and jewelry also.



Fig.22 Stainless steel pins is arrange in a leave shape. Look Stunning on back portion of jacket.



Fig.23 A spaghetti is prepared by silver stainless arrange in a leave shape. Look safety pins.



Fig.24 Wonderful choker neckpiece is made of golden safety pins of small sizes

9.6 Grommets

It simply an eyelet is used to reinforce holes in different types of fabric. You can say that grommet is a ring or edge strip inserted into a hole. They are often made of metal, plastic and rubber. They may be used in leather shoes, bags, curtains etc. but there is a wonderful use of grommet in dresses which is incredible.



9.7 Use of grommet/ eyelet in dresses.



Fig.25 Fitted silhouette emphasized by balanced arrangement of eyelet.



Fig.26 Black sheath

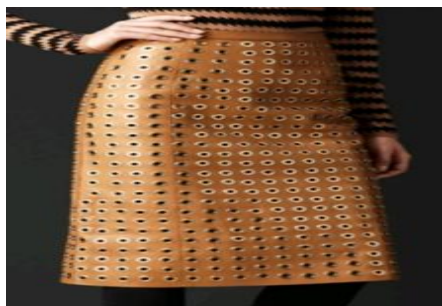


Fig.27'A' line skirt of leather ornamented by Small eyelets.

9.8 Brooch: It is also a temporary fastener used to hold two or more layers of fabric together. it is a decorative fastener and available in large number of varieties and also known as a kind of jewelry. It is usually made of metal, often silver or gold but, sometimes bronze or some other material can be used. They are frequently decorated with gemstones or enamel.



The Brooch in blue color gives soothing feel and ideal for silk saree.

10. Utilization of Brooch in Decorative Way.

10.1 Use of brooch on neck area.

White brooch of classy stone is stupendously enhancing the convertible collar of white shirt.



10.2 Use of brooch on back fullness

This beautiful beaded stone is a highlighter on back part.



IV.CONCLUSION

All types of fasteners can perform remarkable even though they work purely functional. It's really interesting way to express your talent by using these fasteners in eccentric style.

ACKNOWLEDGEMENT

Although is a normal practice to thank god firstly. This research was supported by book of authors that I have mentioned below. It's based on smy findings and interest as well as massive collection of pictures which I got from interest. I would like to give a special thanks to my colleague from Aligarh Muslim University who provided insight and expertise that greatly assisted the research. This acknowledgement will be incomplete without thanking my supportive teachers Ms.Sadia Naim, who have taught me and the students whom I have taught. At last I would like to thank to each and every person who helped me to complete this paper. I wish this paper will be found useful by the peoples who are the part of fashion designing.

REFERENCES

- [1]. The basic book of sewing of Eve Harlow .
- [2]. Encyclopedia of dress making of Marshall Cavendish.
- [3]. <https://blog.loveKnitting>
- [4]. Fashion2apparel.blogspot.com
- [5]. <https://www.textileschool.com>
- [6]. Textilelearner.blogspot.com>2012/11
- [7]. <https://en.m.wikipedia.org/wiki/Hooks>
- [8]. <http://sewguide.com>
- [9]. [Amp. Pinterest.com](http://Pinterest.com)
- [10]. Wikipedia

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