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(54) Title: DETACHABLE INTERCHANGEABLE COLOR BUTTON CAP

(57) Abstract: The invention is Button Caps that are manually fixable and removable and interchangeable, manufactured either from the same material as that of the original button or from silicone or any other plastic material. The cap is having a bore in the back-side, of same size as the original button to enable it to be fitted on top of it by pressing, or alternatively by adding a small hinge to close on the cap and button from the back - both techniques will prevent the cap from falling as it is made in such a way that it firmly holds on the bottom. The Hinge is made especially for the caps contain high-value material like precious metals and stones. The idea will enable placement of different sets of buttons of different colors, shapes, material, etc. on the same textile piece (e.g. Shirt), depending on the users' occasion, clothes matching, mood, and general theme of his or her dress code on that occasion.



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Detachable interchangeable color Button Cap**Technical Field:**

Garment and Ready Made Clothes Manufacturing

Background Art:

A button is a small fastener, now most commonly made of plastic, but also frequently of metal, wood or seashell, which secures two pieces of fabric together.

Buttons are most often attached to articles of clothing but can also be used on containers such as wallets and bags. However, buttons may be sewn onto garments and similar items exclusively for purposes of ornamentation. Buttons serving as fasteners work by slipping through a fabric or thread loop, or by sliding through a buttonhole.

Previous art of Button wear consists of:

- **Covered buttons** came traditionally as fabric-covered forms with a separate back piece that secures the fabric over the knob.
- **Button Caps** Background art is manufactured from metal base and covered with different types of material like metal, or fabric or jewelry. The front side is connected to the back side via a side hinge, while the cover is hollow to fit in the original button. This background art is all themed around fancy design and metal base manufacture and is made to enhance the piece with a more luxurious look.

Problems/ Limitations with Background Art:

Current Button Caps available depend solely on the metal base upon which the rest of the design is made. And since the Metal look and feel does not suit all themes and occasions and purposes, it becomes of very limited use and is suitable only on

occasions that bear a formal & Luxurious style of clothing. I.e. it is not an everyday custom item that the consumer can use.

There are currently no button caps produced in such a way to maintain the shape and size of the typical plastic buttons suitable for daily –wear away from special occasions and events which the metal covers satisfy.

Metal covers give the luxurious enhancement however do not cover convenience of every day wear and variety for the typical consumer.

For example, consider a sky-blue shirt that can be worn under different colors of suits – Black, Dark Blue, Grey, Beige or Brown. Typical shirts now have one color of buttons and spares, which cannot be change in convenience to suit the color of the suit the consumer is wearing on a particular day. The button color here becomes a constraint against easy personal elegance that personalization if the button color could be easily changed and inspired by the general theme and color of the rest of the clothing.

If however this is provided, and one could wear his same shirt with brown fitted buttons (via Button Caps) to suit better his Brown suit and then change them again to Black when wearing his black suit, then the button becomes a key factor of elegance and matching tool.

Same applies to lady wear, where she could match the color of her shirt or dress buttons to suite her general dressing theme and accessories at that particular day.

Another problem with the previous art (Metallic base and cover) lies in its complication and exaggeration in look enhancement, which does not suit every day convenience and inspiration.

What is new in this invention?

- Button Caps are made from the same raw material of the typical button or from other simple raw materials like silicon or rubber that enable fitting on to

button while maintaining its natural size and look & feel. This product is made to fit every day convenience unlike the metal complex covers that reveal exaggeration and suitable to limited themes and use.

- Installation of the Button Cap in the button is easily made by pressing it on original button or fitted via a back-side fiber.
- It is designed for everyday use, unlike the large metal cover style.
- Button Caps will revolutionize the positioning of Buttons in the fashion world by making the button a key item in the overall look of the dressing theme. While now it is an item of fitting, with lesser emphasis on its effect on the general look, the Button Cap will position the button in a different criterion in the mix and match of every day clothes items. Giving a wide variety of color and texture for the same shirt (for example) on different occasions and moods.
- Personalization, inspiration and convenience are key themes the product provides as it allows consumers to personalize their everyday clothing in an individually inspired manner and at high convenience.

Disclosure / Full Description of Invention

- The invention is Button Caps that are manually fixable and removable and interchangeable, manufactured either from the same material as that of the original buttons to maintain the classic traditional look and feel of the buttons used in every day fashionwear. Alternatively the Button Cap could be made of any other material like silicon or elastic rubber of different colors or other material of a sort that does not exaggerate the original size and look of the normal button. The Caps are designed in all variety of color and design that could be used at the consumer convenience to match his/her general clothes theme. This product will make the button an element of classic elegance.
- The cap is having a bore in the backside, of same size as the original button to enable it to be placed on top of it by pressing, or alternatively by adding a small hinge to close on the cap and button from the back – both techniques will prevent the cap from falling as it is made in such a way that it firmly holds on the button. The Hinge is made especially for the caps made of high- value material like precious metals and stones.
- The idea will enable placement of different sets of buttons of different colors, shapes, material, etc. on the same textile piece (e.g. Shirt), depending on the users' occasion, clothes matching, mood, and general spirit of his or her dress code on that particular day.
- The Button Cap could either be of flat face with no holes, or contain the same holes as those of the original button.

Claims

1. Button Caps fixable (installable) and removable (dismountable) for garment wear.
2. Button Caps (in accordance with criterion no. 1) are manufactured from the same material as that of the original buttons used in everyday Garments.
3. Button Caps (in accordance with criterion no. 1) is manufactured in sets of different colors to allow for interchangeability. Where the button color could be easily changed (using the Button Cap) to suit the general color and theme of the dress code.
4. Button Caps (in accordance with criterion no. 1) could be enhanced or manufactured from other material to give different and shape and richer or fancier look and feel by using material as precious stone or accessories to give a different flavor to the traditional style of the button on the garment. The material could be made to match the general accessories frame work of what is being worn (be it matching a hand bag, watch, jewelry, or any other item).
5. Button Caps (in accordance with criterion no. 1) is also used for children garment by adding cartoonic characters or smileys or any other related feature that suits children wear to the facet of the button cap.
6. Button Caps (in accordance with criterion no. 1) could be manufactured from material that would change the outfit from a matinée to a soirée item.
7. Button Caps (in accordance with criterion no. 1) could include holes same as that of the original button and provided with thread that is easily placed through the hole (without need of sewing it to the garment), to maintain the original look of the traditional button.

8. Button Caps (in accordance with criterion no. 1) could be manufactured with a flat facet with no holes. The same cap could have letters or brand names carved on it.
9. Button Caps (in accordance with criterion no. 1) is typically manufactured to suit shirts, T-shirts, Galabia and other garments of that sort where sets of different colored/themed/ shaped button cap is provided to allow for diversity and usage of the same garment to suit different clothes framework. One would use a different set of Button cap to match his/her particular style and color on a particular day.
10. Button Caps (in accordance with criterion no. 1) are manufactured in sets of different colors and shapes and themes and is sold and marketed to both branded garment manufacturers or directly to haberdashery sellers as accessory items for garments.
11. Button Caps (in accordance with criterion no. 1) could be used as a base for further enhancement of a button by adding different accessories or material that would suit the general theme of the overall dress code.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

A44B 1/04, 1/08, 1/14, 1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED Button, Cap, removable, interchangeable, color, garment

Minimum documentation searched (classification system followed by classification symbols)

A44B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Espacenet- EPO: European Patent Register, PATENTSCOPE: WIPO, Google Patent: Google, USPTO, Egyptian Patent data base.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US,2334104 (Removable cap button) 09 November 1943 (09/11/1943) Description & Claims (1-5)	(1,2,7,9) (1,2,7,9)
X Y	US,2014101896 (Button Covering System) 17 April 2014 (17/04/2014) Description & Claims (1-20)	(1,3,4,5,6,7,8) (1,2,4-9)
X Y	US,4471510 (Two piece interchangeable button) 18 September 1984 (18/9/1984) Description & Claims (1-5)	(1,4,6,7) (1,2,4,6,7,9)
X Y	US,6035494 (Button) 14 March 2000 (14/3/2000)	(1,7) (1,7)

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report:	Publication Date:	Patent Family member(s):	Publication Date
US, 2334104	09-11-1943	None	
US2014101896	17-04-2014	None	
US,4471510	18-09-1984	None	
US6035494	14-03-2000	EP0928571	14/07/1999
US6035494	14-03-2000	EP0928571	08/09/1999
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