



(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(43) Date of publication:
12.07.2017 Bulletin 2017/28

(51) Int Cl.:
A44B 1/18 (2006.01)

(21) Application number: **15890194.2**

(86) International application number:
PCT/CN2015/000709

(22) Date of filing: **22.10.2015**

(87) International publication number:
WO 2016/172814 (03.11.2016 Gazette 2016/44)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA

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(30) Priority: **28.04.2015 CN 201520265430 U**

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(54) **SNAP BUTTON**

(57) A snap button comprises a shell (1) having a rubber ring (2) provided therein. Teeth-like blocks (7) are arranged in the rubber ring (2). A lower plate (3) is arranged at one side of the rubber ring (2). A middle plate (4) is arranged at one side of the lower plate (3). An upper ring (5) is arranged at one side of the middle plate (4). The bottom of the upper ring (5) is annular, and the outside of the bottom of the upper ring (5) snaps into the bottom of the shell (1). The bottom of the lower plate (3) is projected outward, and connected with the outside of the rubber ring (2). A through-hole (6) is provided at the center of the upper ring (5). The snap button is elegantly designed, low in cost, easy to use; said button also has a long service life, a firm and secure structure, a wide range of applications, and an aesthetically pleasing appearance. The snap button is convenient for the majority of users as it can be snapped and released quickly.

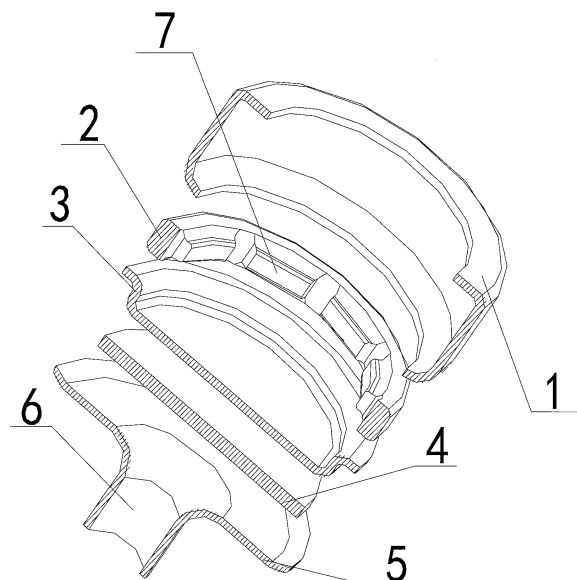


FIG. 2

Description

Technical Field

[0001] The present utility model relates to the field of snap button technologies, and specifically, to a snap button.

Background

[0002] Along with social development, a snap button is a fastener used to connect lappets on two sides of a garment. The snap button is originally used to connect the lappets of the garment, and now has been gradually developed to have artistic and decorative features, that is, personalized feature, in addition to the original function. However, the prior-art snap button has problems such as being easy to age, easy to loosen, insecure, and easy to get disengaged after being used for a long time. These problems need to be resolved urgently.

Summary of Utility Model

[0003] To address the deficiencies in the prior art, the present utility model provides a snap button that features a reasonable structure and ease of use. The snap button resolves the foregoing problems.

[0004] A technical solution used in the present utility model is as follows: a snap button, including a housing, where a rubber ring is disposed inside the housing, tooth-like blocks disposed in the rubber ring, a lower plate is disposed on one side of the rubber ring, a middle plate is disposed on one side of the lower plate, an upper ring is disposed on one side of the middle plate, a bottom of the upper ring is annular, a periphery of the bottom of the upper ring snaps into a bottom of the housing, a bottom of the lower plate bulges outward and is connected to a periphery of the rubber ring, and a through-hole is disposed at the center of the upper ring.

[0005] Preferably, the rubber ring is made of natural rubber, silica gel, or plastic.

[0006] Preferably, a through-hole is disposed at the center of the housing.

[0007] Preferably, the snap button can rotate 360°.

[0008] Preferably, several tooth-like blocks are disposed in the rubber ring.

Beneficial effects of the present utility model are as follows:

[0009] The present utility model features reasonable design, low costs, and ease of use. Tooth-like blocks are disposed in the rubber ring, making the snap button bite more tightly. This makes a structure of the snap button more stable, and prolongs the service life of the snap button, so that snap button is secure, does not easily fall off, is applicable to a larger scope, and has stronger aesthetic appeal. The snap button can be quickly fastened

and unfastened, which is convenient for a large number of users.

Brief Description of Drawings

[0010]

FIG. 1 is a schematic structural diagram of a snap button according to the present utility model; and

FIG. 2 is an exploded section view of a snap button according to the present utility model.

Description of Embodiments

[0011] The following describes the present utility model in detail with reference to specific implementation manners.

[0012] A snap button, as shown in FIG. 1 and FIG. 2, includes a housing 1, where a rubber ring 2 is disposed inside the housing 1, a lower plate 3 is disposed on one side of the rubber ring 2, a middle plate 4 is disposed on one side of the lower plate 3, an upper ring 5 is disposed on one side of the middle plate 4, a bottom of the upper ring 5 is annular, a periphery of the bottom of the upper ring 5 snaps into a bottom of the housing 1, a bottom of the lower plate 3 bulges outward and is connected to a periphery of the rubber ring 2, and a through-hole 6 is disposed at the center of the upper ring 5.

[0013] The rubber ring 2 is made of natural rubber, silica gel, or plastic cement.

[0014] A through-hole is disposed at the center of the housing 1.

[0015] The snap button can rotate 360°.

[0016] Several tooth-like blocks 7 are disposed in the rubber ring 2.

[0017] The foregoing embodiments are only the preferred embodiments of the present utility model, and are not intended to limit the implementation or protection scope of the present utility model; therefore, any equivalent change or modification made according to content defined by the scope of patent protection of the present utility model application should be included in the patent of the present utility model application.

Claims

1. A snap button, comprising a housing, wherein a rubber ring is disposed inside the housing, tooth-like blocks disposed in the rubber ring, a lower plate is disposed on one side of the rubber ring, a middle plate is disposed on one side of the lower plate, an upper ring is disposed on one side of the middle plate, a bottom of the upper ring is annular, a periphery of the bottom of the upper ring snaps into a bottom of the housing, a bottom of the lower plate bulges outward and is connected to a periphery of the rubber

ring, and a through-hole is disposed at the center of the upper ring.

2. The snap button according to claim 1, wherein the rubber ring is made of natural rubber, silica gel, or plastic. 5
3. The snap button according to claim 1, wherein a through-hole is disposed at the center of the housing. 10
4. The snap button according to claim 1, wherein the snap button can rotate 360°. 15
5. The snap button according to claim 1, wherein several tooth-like blocks are disposed in the rubber ring. 15

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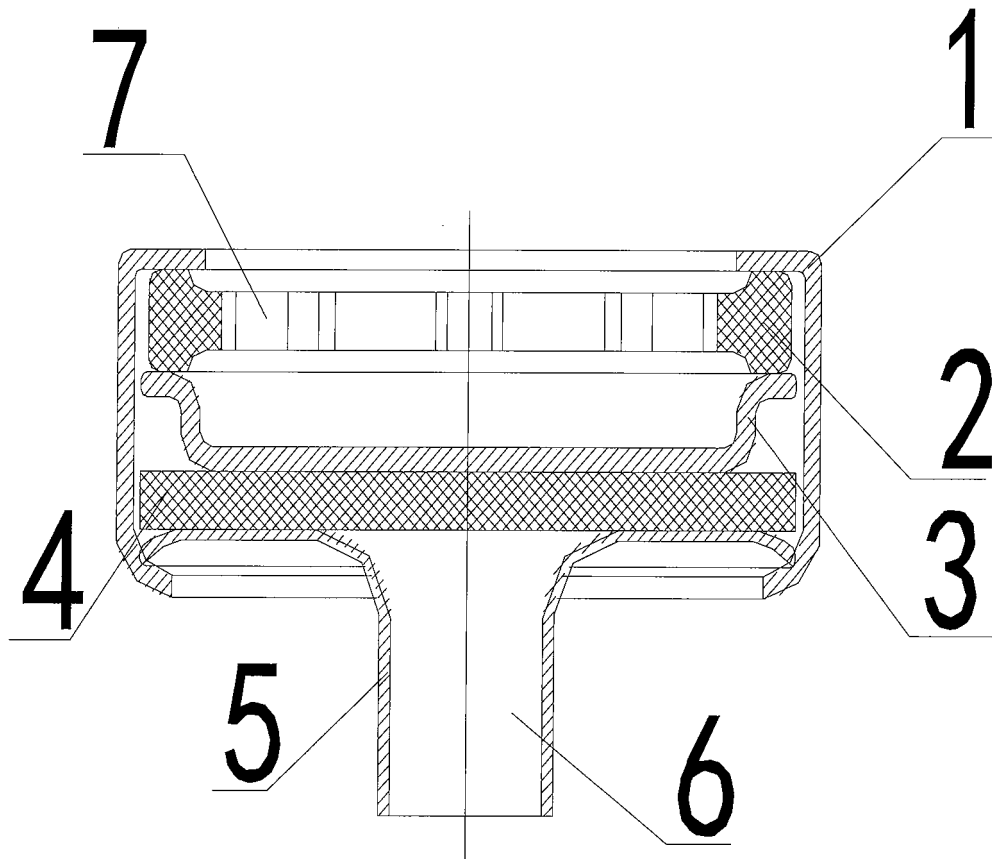


FIG. 1

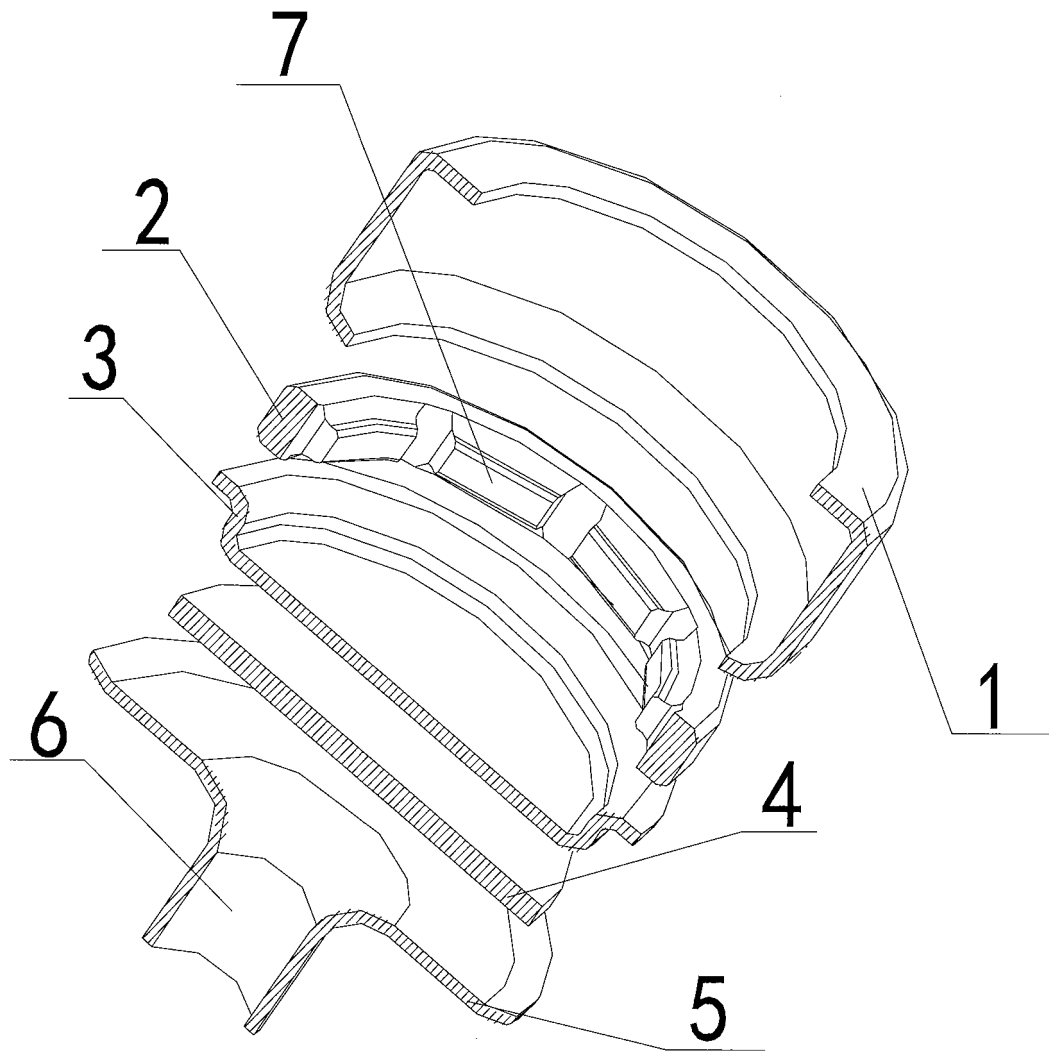


FIG. 2

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2015/000709

A. CLASSIFICATION OF SUBJECT MATTER

A44B 1/18 (2006.01) i

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

B. FIELDS SEARCHED

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)

CPRSABS, CNABS, CNTXT, CNKI, VEN: hidden button, snap fastener, seal, rubber gasket, opening, cavity, loop, ring?, apertur+, punctur+, washer?, rubber+, elastic+, gasket?, hole?, snap?, button?, fastener, press+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 7856697 B2 (QUIMOD, J.), 28 December 2010 (28.12.2010), the whole document	1-5

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

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 08 January 2016 (08.01.2016)	Date of mailing of the international search report 27 January 2016 (27.01.2016)
Name and mailing address of the ISA/CN: State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No.: (86-10) 62019451	Authorized officer WANG, Xiaoli Telephone No.: (86-10) 62085881

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2015/000709

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Form PCT/ISA/210 (continuation of second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT
 Information on patent family members

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CN 203523962 U	09 April 2014	None	

Form PCT/ISA/210 (patent family annex) (July 2009)