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(71) Applicant: **Yangzhou Everbright Foreign Trading Co., Ltd.**
Jiangsu 225006 (CN)

(72) Inventor: **MAO, Yongzhong**
Yangzhou
Jiangsu 225006 (CN)

(74) Representative: **Barske, Heiko et al**
Kramer - Barske - Schmidtchen
Landsberger Strasse 300
80687 München (DE)

(54) **CAP CAPABLE OF INSERTING MP3 MUSIC PLAYER**

(57) A hat to which an MP3 music player is connectable in the field of daily-used items is provided, which includes a hat body. An earphone is respectively disposed at two sides of the hat body. Connecting joints are disposed at outer sides of positions corresponding to human ears on the hat body. Connecting pieces corresponding to the connecting joints are disposed on the earphones. A connecting wire between the two earphones is disposed within the hat body. A slot for accommodating the MP3 music player is provided on the earphone at either of the two sides. An input plug of the earphones is disposed in the slot. The input plug is electrically connected to the earphone at the corresponding side. When the device is used, the MP3 music player can be connected to the input plug in the slot and no connecting wire is exposed outside. The earphones at the two sides can be pulled out from the connecting joints, so that only the connecting joints are left on the hat body, which is neat and clean. The MP3 music player may also be pulled out for separate use. The device is convenient to use and easy to be connected and assembled, so that the device is applicable in knit hats and baseball caps.

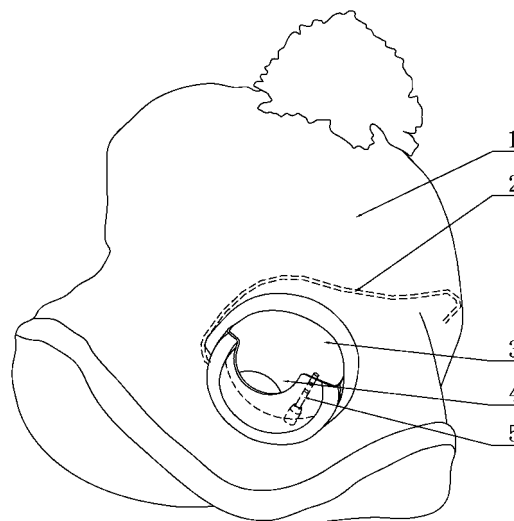


Fig. 1

Description

BACKGROUND OF THE INVENTION

Field of Invention

[0001] The present invention relates to a daily-used item, and more particularly to a hat.

Related Art

[0002] In the prior art, a hat with an MP3 music player includes a hat body and an MP3 main unit. Two earphones are symmetrically disposed at two sides of the hat body. The MP3 main unit is connected to the two earphones through wires. The earphones and the hat body are connected through three folding arms. The folding arms are movably connected through ball joints and ball cups fitting each other. The earphone at one side is movably connected to the MP3 main unit through a ball joint and a ball cup fitting each other. The earphone at the other side is also movably connected to a connecting plate through a ball joint and a ball cup fitting each other. Fixing plates are disposed at two sides within the hat body respectively. Each of the two fixing plates is connected to the MP3 main unit and the connecting plate through a screw passing through the hat body. The MP3 main unit is connected to the earphones through wires. The folding arms are movable. The defects of the prior art are as follows. The MP3 main unit and the earphones are connected through wires, which may cause inconveniences in use. In addition, the earphones are devices with circuits, which are unable to be taken off from the hat conveniently, thus causing troubles for hat washing.

SUMMARY OF THE INVENTION

[0003] The present invention is directed to a hat to which an MP3 music player is connectable, so that the hat and the MP3 music player can be rapidly assembled and disassembled, thus ensuring convenient use.

[0004] To achieve the above objective, the hat to which an MP3 music player is connectable includes a hat body. An earphone is respectively disposed at two sides of the hat body. Connecting joints are disposed at outer sides of positions corresponding to human ears on the hat body. Connecting pieces corresponding to the connecting joints are disposed on the earphones. A connecting wire between the two earphones is disposed within the hat body. A slot for accommodating the MP3 music player is provided on the earphone at either of the two sides. An input plug of the earphones is disposed in the slot. The input plug is electrically connected to the earphone at the corresponding side.

[0005] When the device is used, the MP3 music player can be connected to the input plug in the slot, so that no connecting wire is exposed outside the hat and other objects are not likely to get entangled with the wires, thus

ensuring reliable use. The MP3 player can be pulled out at any time and used as a normal MP3 music player. The earphones at the two sides may also be separated from the hat body; therefore, only the connecting joints are left on the hat body and no circuit or wire exists on the surface of the hat, which is neat and clean. The device is convenient to use and easy to be connected and assembled, so that the device is applicable in hats such as knit hats and baseball caps.

[0006] For the comfort of ears, the connecting joints are made of a soft material. The soft material may be rubber or silica gel.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The present invention will become more fully understood from the detailed description given herein below for illustration only, and thus are not limitative of the present invention, and wherein:

FIG. 1 is a schematic structural view of the present invention; and

FIG. 2 is an exploded view of FIG. 1.

[0008] In the figures, 1: hat body; 2: connecting wire; 3, 6: earphone; 4: slot; 5: input plug; 7, 10: connecting piece; and 8, 9: connecting joint.

DETAILED DESCRIPTION OF THE INVENTION

[0009] As shown in FIGs. 1 and 2, earphones 3, 6 are disposed at two sides of a hat body 1 respectively. Connecting joints 8, 9 are disposed at outer sides of positions corresponding to human ears on the hat body 1. Connecting pieces 7, 10 corresponding to the connecting joints 8, 9 are disposed on the earphones 3, 6. A connecting wire 2 between the two earphones 3, 6 is disposed within the hat body. A slot 4 for accommodating an MP3 music player is provided on the earphone 3 at one side. An input plug 5 of the earphones is disposed in the slot 4. The input plug 5 is electrically connected to the earphone 3 at the corresponding side.

[0010] The present invention is not limited to the above embodiment. The earphones may also be connected to the hat by means of inserting, sewing, and riveting.

Claims

1. A hat to which an MP3 music player is connectable, comprising a hat body, wherein an earphone is respectively disposed at two sides of the hat body, connecting joints are disposed at outer sides of positions corresponding to human ears on the hat body, connecting pieces corresponding to the connecting joints are disposed on the earphones, a connecting wire between the two earphones is disposed within

the hat body, a slot for accommodating the MP3 music player is provided on the earphone at either of the two sides, an input plug of the earphones is disposed in the slot, and the input plug is electrically connected to the earphone at the corresponding side. 5

2. The hat to which an MP3 music player is connectable according to claim 1, wherein the connecting joints are made of a soft material. 10

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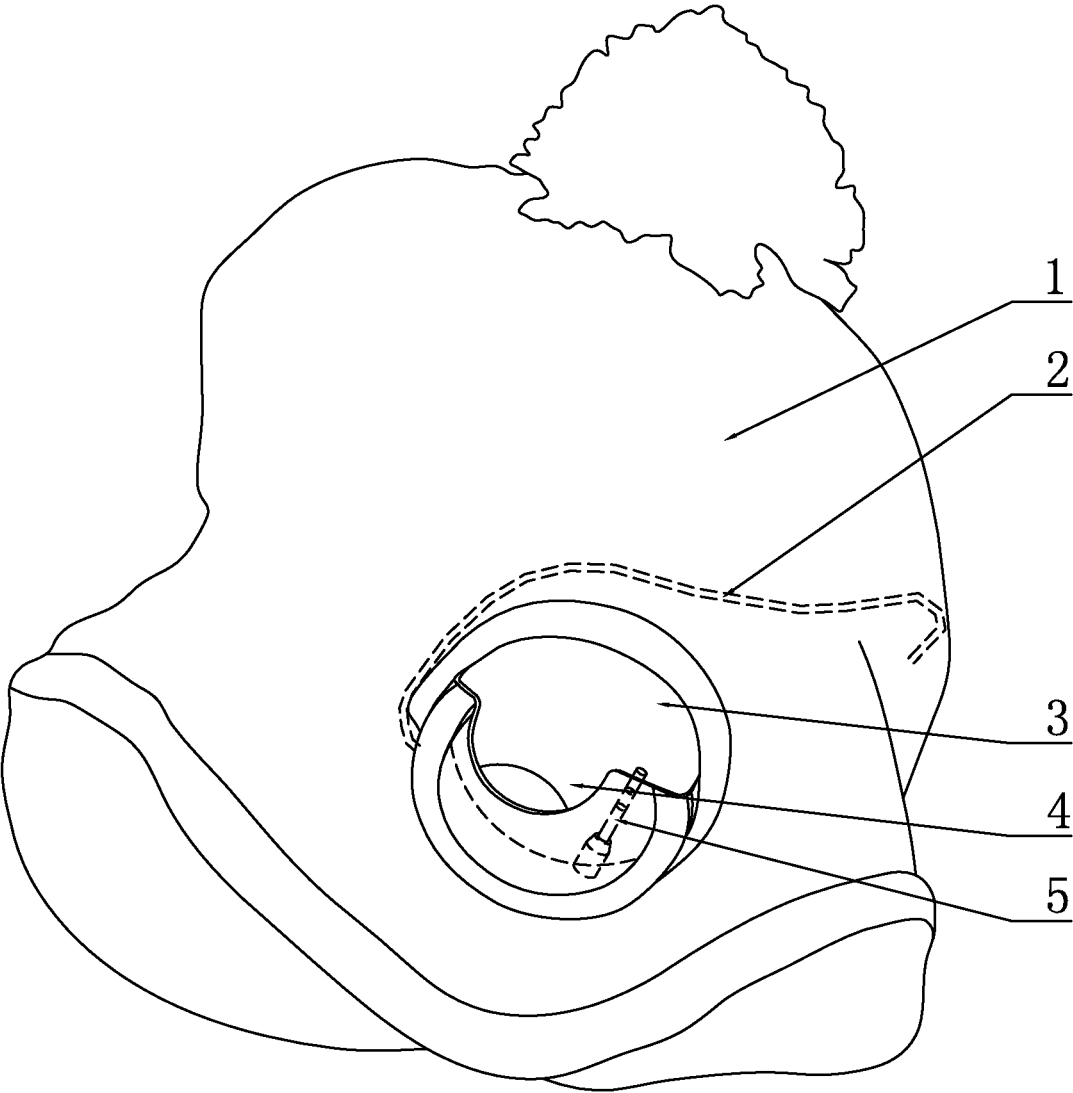


Fig. 1

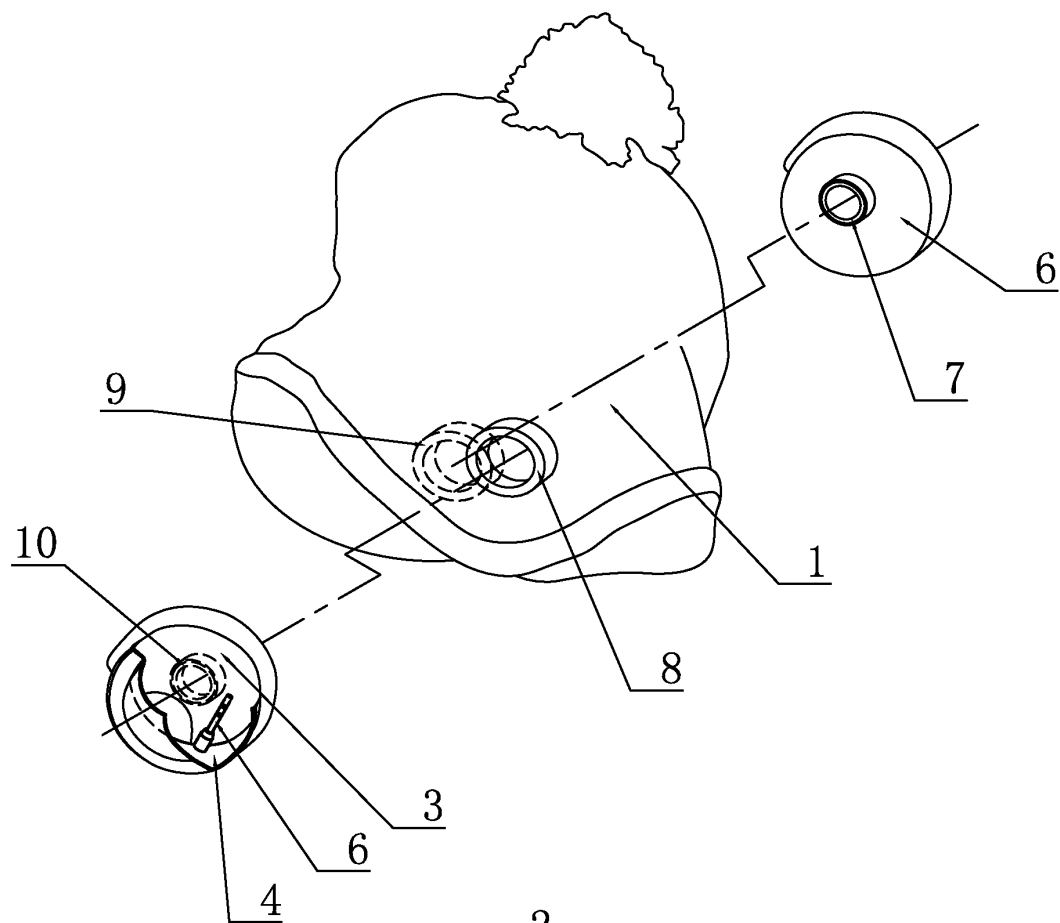


Fig. 2

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2010/070042

A. CLASSIFICATION OF SUBJECT MATTER			See Extra Sheet												
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)															
IPC: A42B1, A42B3, A61F11, A41D13, H01R1, H04R5															
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)															
CNPAT, WPI, EPODOC, CNKI cap?, hat?, earphone?, earpiece?, player?, insert+, slot+, groove?, detach+, releas+															
C. DOCUMENTS CONSIDERED TO BE RELEVANT															
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.												
Y	CN 1830342 A (SHENGJI SCI & TECHNOLOGY CO LTD) 13 Sept. 2006 (13.09.2006), the description page 4, line 22 to page 6, line 26, figures 1-10.		1-2												
Y	CN 2817503 Y (XINCHENG INDUSTRY CO LTD) 20 Sept. 2006 (20.09.2006), the description page 1, line 17 to page 2, line 26, figures 1-4.		1-2												
Y	CN 201114719 Y (LOBOS TECHNOLOGY INC) 10 Sept. 2008 (10.09.2008), the description page 2, line 9 to page 4, line 19, figures 1-9B.		1-2												
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.															
<table border="0"> <tr> <td>* Special categories of cited documents:</td> <td>“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</td> </tr> <tr> <td>“A” document defining the general state of the art which is not considered to be of particular relevance</td> <td>“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</td> </tr> <tr> <td>“E” earlier application or patent but published on or after the international filing date</td> <td>“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</td> </tr> <tr> <td>“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)</td> <td>“&” document member of the same patent family</td> </tr> <tr> <td>“O” document referring to an oral disclosure, use, exhibition or other means</td> <td></td> </tr> <tr> <td>“P” document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>				* 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	
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“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														
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“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 2 Mar. 2010 (02.03.2010),		Date of mailing of the international search report 15 Apr.2010(15.04.2010)													
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451		Authorized officer WANG Qiuyan Telephone No. (86-10)62084130													

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2010/070042

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20070226876 A1 (ISOUND CAP INC) 4 Oct. 2007 (04.10.2007), the whole document.	1-2
A	US 6305026 B1 (MO, Chung) 23 Oct. 2001(23.10.2001), the whole document.	1-2
A	US 4776044 A (MAKINS, J. Patrick) 11 Oct. 1988 (11.10.1988), the whole document.	1-2
A	US 2007053544 A1 (JHAO, Yun-Long et al) 8 Mar. 2007 (08.03.2007), the whole document.	1-2

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2010/070042

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 1830342 A	13.09.2006	NONE	
CN 2817503 Y	20.09.2006	NONE	
CN 201114719 Y	10.09.2008	NONE	
US 20070226876 A1	04.10.2007	WO 2007103052 A	13.09.2007
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US 4776044 A	11.10.1988	NONE	
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		TW 200711507 A	16.03.2007

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

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A42B 1/24 (2006.01) i
H04R 5/033 (2006.01) i
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A61F 11/14 (2006.01) i