



## 一种防爆开拉链

### 技术领域

本发明涉及一种拉链。

### 背景技术

箱包在我们日常生活中用于装载衣物、行李和其它生活用品，尤其在旅行方面起了很大作用，而箱包拉链的闭合作用至关重要。箱包的拉链反复开合频率较高，使得拉链容易磨损撕裂，特别在搬运中对拉链的强度要求较高，拉链的破损及爆开会致箱包内财物的遗落或失窃。现有的拉链容易损坏撕裂、搬运中易爆开且不耐用。

### 发明内容

本发明的目的是为解决现有的拉链容易损坏撕裂、搬运中易爆开且不耐用的问题，进而提供一种防爆开拉链。

本发明包括：拉链左袢、拉链右袢和双齿拉链头，所述拉链左袢由左下层牙齿、左侧布带和左上层牙齿组成，所述的左下层牙齿和左上层牙齿分别固定在左侧布带的上下两侧的边沿上，所述的拉链右袢由右上层牙齿、右侧布带和右下层牙齿组成，所述的右上层牙齿和右下层牙齿分别固定在右侧布带的上下两侧的边沿上，左下层牙齿与右下层牙齿相配合，左上层牙齿与右上层牙齿相配合，双齿拉链头与左下层牙齿、右下层牙齿、左上层牙齿以及右上层牙齿的组合相配合。

本发明的使用性能与传统拉链无异，但与传统拉链相比，却达到了双倍于传统拉链的撕裂强度，并且延长了拉链产品的使用寿命，也是传统拉链产品的一次创新。由于同时采用两层拉链牙齿的布局结构，增加了拉链的强度和耐用性。

## 附图说明

图 1 是本发明的具体实施方式提供的整体结构示意图 (侧视图),

图 2 是拉链的主视图,

图 3 是拉链的剖面图,

图 4 是拉链头的侧视图,

图 5 是拉链头的剖面图。

## 具体实施方式

本发明较佳的实施方式见图 1~图 5, 本实施方式包括: 拉链左袪、拉链右袪和双齿拉链头 1, 所述拉链左袪由左下层牙齿 2、左侧布带 3 和左上层牙齿 4 组成, 所述的左下层牙齿 2 和左上层牙齿 4 分别固定在左侧布带 3 的上下两侧的边沿上, 所述的拉链右袪由右上层牙齿 5、右侧布带 6 和右下层牙齿 7 组成, 所述的右上层牙齿 5 和右下层牙齿 7 分别固定在右侧布带 6 的上下两侧的边沿上, 左下层牙齿 2 与右下层牙齿 7 相配合, 左上层牙齿 4 与右上层牙齿 5 相配合, 双齿拉链头 1 与左下层牙齿 2、右下层牙齿 7、左上层牙齿 4 以及右上层牙齿 5 的组合相配合。

所述的双齿拉链头 1 包括拉柱 1-1、底板 1-2、盖板 1-3 和鼻梁 1-4, 所述的底板 1-2 固定在拉柱 1-1 的底端, 所述的盖板 1-3 固定在拉柱 1-1 的顶端, 所述的鼻梁 1-4 固定在盖板 1-3 的上面。所述鼻梁用于固定拉片。

本发明由于上下两排牙齿共同受力, 在使用中减轻了牙齿的拉力, 降低了拉链的疲劳程度, 拉链即使高频率的反复开合, 拉链也不容易磨损撕裂, 特别在搬运中拉链的强度明显地显现出来, 极大的降低了拉链的破损及爆开的机会, 避免了箱包内财物的遗落或失窃。

---

1、一种防爆开拉链，包括：拉链左袷、拉链右袷和双齿拉链头（1），其特征在于，所述拉链左袷由左下层牙齿（2）、左侧布带（3）和左上层牙齿（4）组成，所述的左下层牙齿（2）和左上层牙齿（4）分别固定在左侧布带（3）的上下两侧的边沿上，所述的拉链右袷由右上层牙齿（5）、右侧布带（6）和右下层牙齿（7）组成，所述的右上层牙齿（5）和右下层牙齿（7）分别固定在右侧布带（6）的上下两侧的边沿上，左下层牙齿（2）与右下层牙齿（7）相配合，左上层牙齿（4）与右上层牙齿（5）相配合，双齿拉链头（1）与左下层牙齿（2）、右下层牙齿（7）、左上层牙齿（4）以及右上层牙齿（5）的组合相配合；所述的双齿拉链头（1）包括拉柱（1-1）、底板（1-2）、盖板（1-3）和鼻梁（1-4），所述的底板（1-2）固定在拉柱（1-1）的底端，所述的盖板（1-3）固定在拉柱（1-1）的顶端，所述的鼻梁（1-4）固定在盖板（1-3）的上面。

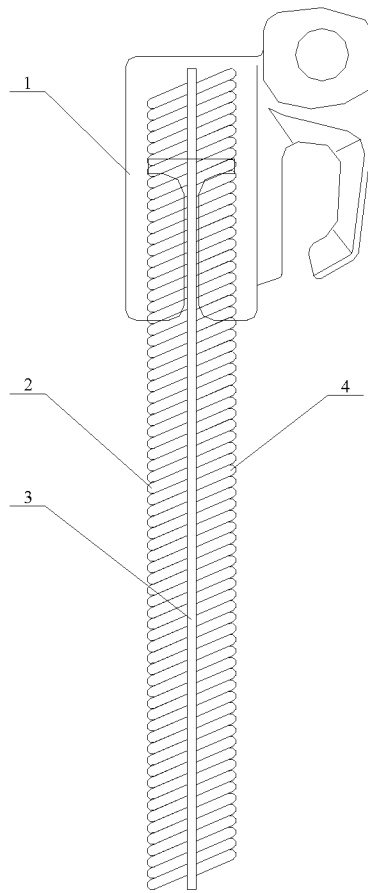


图 1

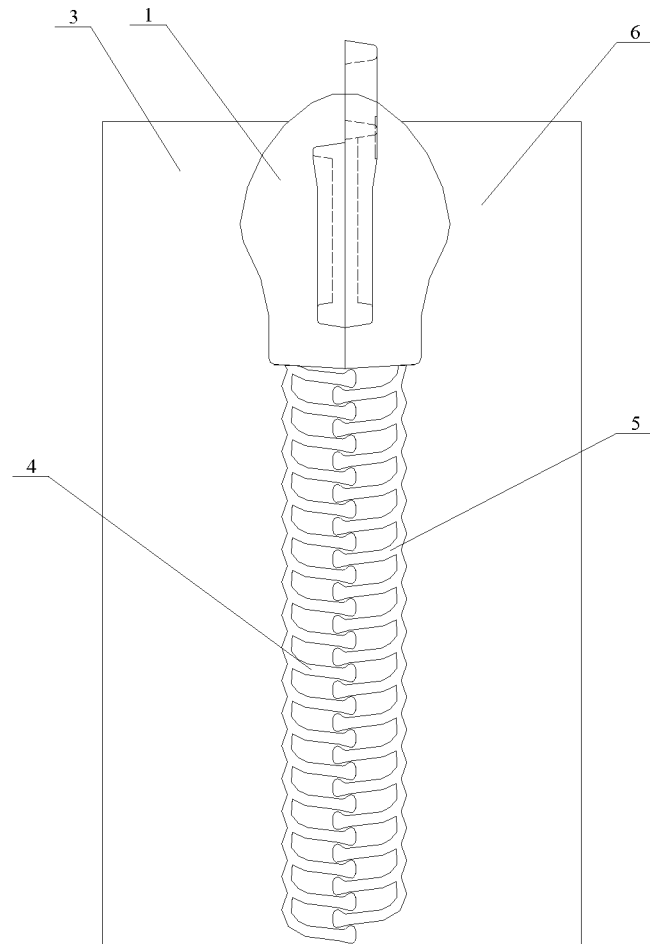


图 2

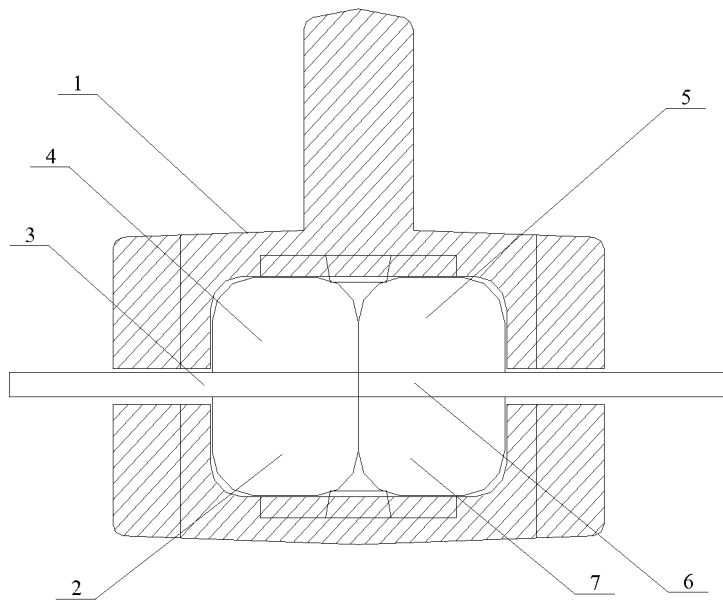


图 3

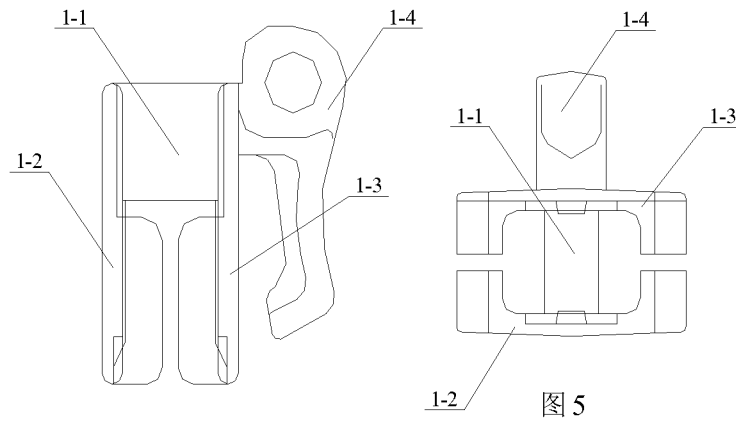


图 4

图 5

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/085067

## A. CLASSIFICATION OF SUBJECT MATTER

See the 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: A44B 19

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, VEN, CNKI: double teeth, dual-layer, explode, double

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 102085030 A (LIN, Liqin), 08 June 2011 (08.06.2011), claims 1-2, and description	1
X	CN 201948131 U (LIN, Liqin), 31 August 2011 (31.08.2011), claims 1-2, and description	1
X	CN 102247038 A (WANG, Lianzhou), 23 November 2011 (23.11.2011), description, pages 1-3, and figures 1-14.	1
A	W O 9707702 A I (SEO, C.S.), 06 March 1997 (06.03.1997), the whole document	1
A	SE 8602396 A (LIPOWSKI, M.), 28 November 1987 (28.11.1987), the whole document	1
A	CN 2493068 Y (LIU, Zhenghua), 29 May 2002 (29.05.2002), the whole document	1

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 19 August 2013 (19.08.2013)	Date of mailing of the international search report 29 August 2013 (29.08.2013)
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, Xiuli Telephone No.: (86-10) 62085662



INTERNATIONAL SEARCH REPORT  
Information on patent family members

International application No.  
PCT/CN2012/085067

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102085030 A	08.06.2011	CN 102085030 B	19.09.2012
CN 20194813 U	31.08.2011	None	
CN 102247038 A	23.11 .2011	EP 2499929 A	19.09.2012
		CN 102247038 B	08.05.2013
		W O 2012136061 A	11.10.2012
		K R 20120115147 A	17.10.2012
W O 9707702 A I	06.03.1997	JPH 10501726 A	17.02.1998
		JP 2000210107 A	02.08.2000
		JP 2007050266 A	01.03.2007
		JP 2009056322 A	19.03.2009
SE 8602396 A	28.11 .1987	SE 464444 B	29.04.1991
CN 2493068 Y	29.05.2002	None	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/085067

A. CLASSIFICATION OF SUBJECT MATTER

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

A44B 19/04 (2006.01) i

A44B 19/26 (2006.01) n

A44B 19/40 (2006.01) n



国际检索报告

关于同族专利的信息

国际申请号

PCT/CN2012/085067

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN 102085030 A	08.06.201 1	CN 102085030 B	19.09.2012
CN 20194813 U	31.08.201 1	无	
CN 102247038 A	23. 11.201 1	EP 2499929 A	19.09.2012
		CN 102247038 B	08.05.2013
		WO 2012136061 A	11. 10.2012
		KR 201201 15 147 A	17. 10.2012
WO 9707702 A I	06.03. 1997	JPH 10501726 A	17.02. 1998
		JP 2000210107 A	02.08.2000
		JP 2007050266 A	01.03.2007
		JP 2009056322 A	19.03.2009
SE 8602396 A	28. 11.1987	SE 464444 B	29.04. 1991
CN 2493068 Y	29.05.2002	无	

A. 主题的分类

按照国际专利分类(IPC)或者同时按照国家分类和IPC两种分类

A44B 19/04 (2006.01) i

A44B 19/26 (2006.01) n

A44B 19/40 (2006.01) n