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Titles

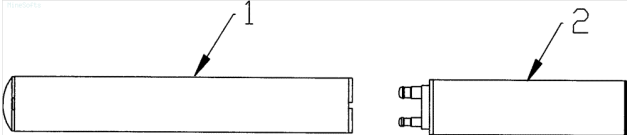
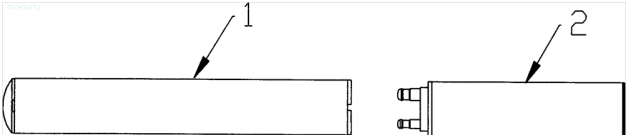
[MT]

Plug-in electronic cigarette

[ZH]

插拔式电子烟

Abstract

ZH	MT
本实用新型涉及一种电子烟，尤其是一种插拔式电子烟。包括烟管及烟嘴，所述的烟管内设有电池，所述的烟嘴内设有雾化器组件，所述的烟管和烟嘴通过可插拔接触片连接安装。本实用新型的插拔式电子烟的烟管和烟嘴连接处通过可插拔接触片来实现结构及电路的连接，在生产和使用时，通过简单的插拔操作即可实现安装或者拆分，大幅提高了装配和更换部件的便利性，另外烟管和烟嘴可以分离更换，降低了用户的使用成本。 	The utility model relates to an electronic cigarette, in particular to a plug-in electronic cigarette. It includes a cigarette pipe and a cigarette holder. A battery is arranged in the cigarette pipe, and an atomizer assembly is arranged in the cigarette holder. The smoke pipe and the cigarette holder are connected and installed through a pluggable contact piece. The connection between the cigarette pipe and the cigarette holder of the plug-in electronic cigarette of the utility model realizes the connection of the structure and the circuit through the pluggable contact piece. During production and use, the installation or disassembly can be realized through a simple plug-in operation. The convenience of assembling and replacing parts is greatly improved, and the pipe and mouthpiece can be replaced separately, which reduces the user's use cost. 

Claims

[ZH]	[MT]
1.一种插拔式电子烟，包括烟管及烟嘴，所述的烟管内设有电池，所述的烟嘴内设有雾化器组件，其特征在于：所述的烟管和烟嘴通过可插拔接触片连接安装。	1. A pluggable electronic cigarette, including a cigarette pipe and a mouthpiece, a battery is arranged in the pipe, and an atomizer assembly is arranged in the mouthpiece, and it is characterized in that: the pipe and the mouthpiece can pass through Plug-in contact piece connection installation.
2.如权利要求1所述的插拔式电子烟，其特征在于：所述的烟管包括烟管外壳及设于烟管外壳两端的灯帽及母端子固定座，所述的烟管外壳内设有电池，所述的烟管外壳灯帽端内侧设有控制器，母端子固定座中设有与电池相连的负极公接触片和正极母接触片。	2. The plug-in electronic cigarette according to claim 1, wherein the smoke pipe includes a smoke pipe casing, lamp caps and female terminal fixing seats arranged at both ends of the smoke pipe casing, and the smoke pipe casing A battery is provided inside, a controller is provided inside the lamp cap end of the smoke pipe housing, and a negative male contact piece and a positive female contact piece connected to the battery are provided in the female terminal fixing seat.
3.如权利要求2所述的插拔式电子烟，其特征在于：所述的控制器设于一控制器固定座内。	3. The plug-in electronic cigarette according to claim 2, wherein the controller is arranged in a controller fixing seat.
4.如权利要求3所述的插拔式电子烟，其特征在于：所述的烟嘴包括雾化管及设于雾化管两端的吸嘴盖和公端子固定座，雾化管上设有进气孔，所述的雾化器组件设于雾化管中，雾化器组件包括一玻纤管，玻纤管侧壁开设通孔，通孔内穿过一发热丝，玻纤管外部包裹有吸油棉，公端子固定座上设有与发热丝相连的正极公端子和负极母端子。	4. The plug-in electronic cigarette according to claim 3, wherein the mouthpiece includes an atomizing tube, a nozzle cover and a male terminal fixing seat arranged at both ends of the atomizing tube, and the atomizing tube is provided with The air intake hole, the atomizer assembly is arranged in the atomization tube, the atomizer assembly includes a glass fiber tube, the side wall of the glass fiber tube is provided with a through hole, a heating wire passes through the through hole, and the outside of the glass fiber tube Wrapped with oil-absorbing cotton, the male terminal holder is provided with a positive male terminal and a negative female terminal connected to the heating wire.
5.如权利要求4所述的插拔式电子烟，其特征在于：所述的公端子固定座包括固定座本体及导通进气孔和玻纤管的导通管。	5 . The plug-in electronic cigarette according to claim 4 , wherein the male terminal fixing seat includes a fixing seat body and a conduction tube leading to the air inlet hole and the glass fiber tube. 6 .
6.如权利要求5所述的插拔式电子烟，其特征在于：所述的公端子固定座上设有密封圈。	6. The plug-in electronic cigarette according to claim 5, wherein a sealing ring is provided on the male terminal fixing seat.

Description

[ZH]	[MT]
技术领域	technical field
本实用新型涉及一种电子烟，尤其是一种插拔式电子烟。	The utility model relates to an electronic cigarette, in particular to a plug-in electronic cigarette.
背景技术	Background technique
电子烟是一种通过雾化器燃烧烟油产生烟雾以替代传统香烟的产品，由于其使用方便、口味可通过烟油的调配而改变，而且对人体的健康伤害远低于传统香烟，所以近几年在国内外市场得到了广泛而迅速的推广。现有的电子烟一般由位于烟嘴部位的雾化器和位于烟管部位的电池及指示灯组成，在烟嘴与烟管的连接处的连接方式一般有螺纹配合、挤压配合等形式，在使用过程中需要更换部件或者补充烟油时需要拆开烟嘴和烟管进行操作，由于烟嘴和烟管的连接处不仅是物理结构的连接，还有电路连接，现有的连接方式不仅不方便拆开，而且容易损坏电路，造成电子烟不能使用。	E-cigarette is a product that burns e-liquid through an atomizer to generate smoke to replace traditional cigarettes. Because it is easy to use, its taste can be changed through the deployment of e-liquid, and its harm to human health is much lower than that of traditional cigarettes, so it is near Over the past few years, it has been widely and rapidly promoted in domestic and foreign markets. Existing electronic cigarettes are generally composed of an atomizer located at the mouthpiece, a battery at the pipe, and an indicator light. The connection between the mouthpiece and the pipe generally includes screw fit, extrusion fit, etc. In the process, when parts need to be replaced or the e-liquid needs to be replenished, the cigarette holder and the pipe must be disassembled for operation. Since the connection between the cigarette holder and the pipe is not only a connection of the physical structure, but also a circuit connection, the existing connection method is not only inconvenient to disassemble. , and it is easy to damage the circuit, making the electronic cigarette unusable.
发明内容	Contents of the invention
本实用新型提供一种便于进行雾化器和电子烟电池的安装在拆分、电子烟电池充电方便性、结构及电路的稳定性的插拔式电子烟。	The utility model provides a plug-in electronic cigarette which is convenient for installation and disassembly of an atomizer and an electronic cigarette battery, convenient charging of the electronic cigarette battery, and good structure and circuit stability.
为了实现上述目的，本实用新型采用如下技术方案：	In order to achieve the above object, the utility model adopts the following technical solutions:
它包括烟管及烟嘴，所述的烟管内设有电池，所述的烟嘴内设有雾化器组件，其改进在于：所述的烟管和烟嘴通过可插拔接触片连接安装。	It includes a cigarette pipe and a cigarette holder. The cigarette pipe is provided with a battery, and the cigarette holder is provided with an atomizer assembly. The improvement is that the cigarette pipe and the cigarette holder are connected and installed through a pluggable contact piece.

优选地，所述的烟管包括烟管外壳及设于烟管外壳两端的灯帽及母端子固定座，所述的烟管外壳内设有电池，所述的烟管外壳灯帽端内侧设有控制器，母端子固定座中设有与电池相连的负极公接触片和正极母接触片。	Preferably, the smoke pipe includes a smoke pipe shell, lamp caps and female terminal fixing seats arranged at both ends of the smoke pipe shell, a battery is arranged inside the smoke pipe shell, and a There is a controller, and a negative public contact piece and a positive female contact piece connected with the battery are arranged in the female terminal fixing seat.
优选地，所述的控制器设于一控制器固定座内。	Preferably, the controller is arranged in a controller fixing seat.
优选地，所述的烟嘴包括雾化管及设于雾化管两端的吸嘴盖和公端子固定座，雾化管上设有进气孔，所述的雾化器组件设于雾化管中，雾化器组件包括一玻纤管，玻纤管侧壁开设通孔，通孔内穿过一发热丝，玻纤管外部包裹有吸油棉，公端子固定座上设有与发热丝相连的正极公端子和负极母端子。	Preferably, the cigarette holder includes an atomizing tube, suction nozzle covers and male terminal fixing seats arranged at both ends of the atomizing tube, an air inlet is provided on the atomizing tube, and the atomizer assembly is arranged on the atomizing tube Among them, the atomizer assembly includes a glass fiber tube, the side wall of the glass fiber tube is provided with a through hole, and a heating wire passes through the through hole, the outside of the glass fiber tube is wrapped with oil-absorbing cotton, and the male terminal fixing seat is provided with a heating wire connected to it. positive male terminal and negative female terminal.
优选地，所述的公端子固定座包括固定座本体及导通进气孔和玻纤管的导通管。	Preferably, the male terminal fixing seat includes a fixing seat body and a conduction tube leading to the air inlet hole and the glass fiber tube.
优选地，所述的公端子固定座上设有密封圈。	Preferably, a sealing ring is provided on the male terminal fixing seat.
由于采用了上述结构，本实用新型的插拔式电子烟的烟管和烟嘴连接处通过可插拔接触片来实现结构及电路的连接，在生产和使用时，通过简单的插拔操作即可实现安装或者拆分，大幅提高了装配和更换部件的便利性，另外烟管和烟嘴可以分离更换，降低了用户的使用成本。	Due to the adoption of the above-mentioned structure, the connection between the cigarette pipe and the mouthpiece of the plug-in electronic cigarette of the utility model is realized through the pluggable contact piece to realize the connection of the structure and the circuit. During production and use, it can be simply plugged in and out. The installation or disassembly is realized, which greatly improves the convenience of assembly and replacement of parts. In addition, the pipe and mouthpiece can be replaced separately, which reduces the user's use cost.
附图说明	Description of drawings
图1是本实用新型实施例的整体拆分结构示意图；	Fig. 1 is a schematic diagram of the overall split structure of the utility model embodiment;
图2是本实用新型实施例的烟管的爆炸结构示意图；	Fig. 2 is a schematic diagram of the explosion structure of the smoke pipe of the utility model embodiment;

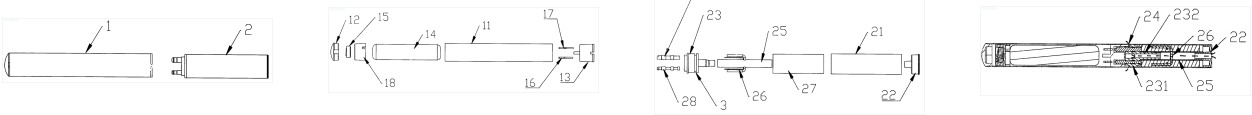
图3是本实用新型实施例的烟嘴的爆炸结构示意图；	Fig. 3 is a schematic diagram of the explosive structure of the cigarette holder of the embodiment of the present invention;
图4是本实用新型实施例的整体截面结构示意图。	Fig. 4 is a schematic diagram of the overall cross-sectional structure of the embodiment of the utility model.
具体实施方式	Detailed ways
如图1-4所示，本实施例的插拔式电子烟包括烟管1及烟嘴2，所述的烟管1内设有电池，所述的烟嘴2内设有雾化器组件，所述的烟管和烟嘴通过可插拔接触片连接安装。	As shown in Figures 1-4, the plug-in electronic cigarette of this embodiment includes a smoke tube 1 and a cigarette holder 2, the smoke tube 1 is provided with a battery, and the cigarette holder 2 is provided with an atomizer assembly. The above-mentioned cigarette pipe and cigarette holder are connected and installed through a pluggable contact piece.
具体地，本实施例中所述的烟管1包括烟管外壳11及设于烟管外壳11两端的灯帽12及母端子固定座13，所述的烟管外壳11内设有电池14，所述的烟管外壳11灯帽端内侧设有控制器15，母端子固定座13中设有与电池相连的负极公接触片16和正极母接触片17。	Specifically, the smoke pipe 1 described in this embodiment includes a smoke pipe casing 11, a lamp cap 12 and a female terminal fixing seat 13 arranged at both ends of the smoke pipe casing 11, and a battery 14 is arranged inside the smoke pipe casing 11. A controller 15 is provided inside the lamp cap end of the smoke pipe housing 11, and a negative male contact 16 and a positive female contact 17 connected to the battery are provided in the female terminal fixing seat 13.
为了进一步实现控制器的稳定安装，本实施例中，所述的控制器15设于一控制器固定座18内。	In order to further realize the stable installation of the controller, in this embodiment, the controller 15 is arranged in a controller fixing seat 18.
本实施例中，所述的烟嘴2包括雾化管21及设于雾化管21两端的吸嘴盖22和公端子固定座23，雾化管21上设有进气孔24，所述的雾化器组件设于雾化管21中，雾化器组件包括一玻纤管25，玻纤管25侧壁开设通孔，通孔内穿过一发热丝26，玻纤管25外部包裹有吸油棉27，公端子固定座23上设有与发热丝相连的正极公端子28和负极母端子29。	In this embodiment, the cigarette holder 2 includes an atomizing tube 21, a nozzle cover 22 and a male terminal fixing seat 23 arranged at both ends of the atomizing tube 21, and the atomizing tube 21 is provided with an air inlet 24. The atomizer assembly is located in the atomization tube 21, the atomizer assembly includes a glass fiber tube 25, the side wall of the glass fiber tube 25 is provided with a through hole, a heating wire 26 passes through the through hole, and the glass fiber tube 25 is wrapped with The oil-absorbing cotton 27 and the male terminal holder 23 are provided with a positive male terminal 28 and a negative female terminal 29 connected to the heating wire.

本实施例中，所述的公端子固定座23包括固定座本体231及导通进气孔24和玻纤管25的导通管232。图4中的箭头为使用时的气流方向，空气由进气孔24进入，经过导通管232进入玻纤管，经发热丝26加热雾化后由吸嘴盖22排出。	In this embodiment, the male terminal fixing base 23 includes a fixing base body 231 and a conduction pipe 232 leading to the air inlet 24 and the glass fiber tube 25 . The arrow in Fig. 4 is the airflow direction during use, and air enters from the air inlet 24, enters the fiberglass tube through the conduction pipe 232, and is discharged by the nozzle cover 22 after being heated and atomized by the heating wire 26.
为了增强烟嘴部分的密封性，本实施例中，在所述的公端子固定座23上设有密封圈3。	In order to enhance the sealing performance of the mouthpiece, in this embodiment, a sealing ring 3 is provided on the male terminal fixing seat 23 .
以上所述仅为本实用新型的优选实施例，并非因此限制本实用新型的专利范围，凡是利用本实用新型说明书及附图内容所作的等效结构或等效流程变换，或直接或间接运用在其他相关的技术领域，均同理包括在本实用新型的专利保护范围内。	The above is only a preferred embodiment of the utility model, and does not limit the patent scope of the utility model. Any equivalent structure or equivalent process conversion made by using the specification of the utility model and the contents of the accompanying drawings may be directly or indirectly used in Other relevant technical fields are all included in the patent protection scope of the present utility model in the same way.

Legal events

Code	Title	Date	Country	Impact	Details
GR01	PATENT GRANT	2013-01-30	CN	+	
C14	GRANT OF PATENT OR UTILITY MODEL	2013-01-30	CN	+	
CX01	EXPIRY OF PATENT TERM	2022-08-23	CN	-	Granted Publication Date 20130130
CX01	EXPIRY OF PATENT TERM	2022-08-23	CN	-	

Images





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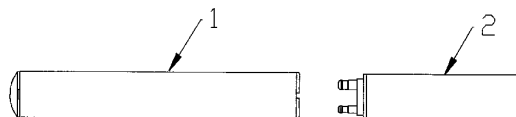
权利要求书 1 页 说明书 2 页 附图 2 页

(54) 实用新型名称

插拔式电子烟

(57) 摘要

本实用新型涉及一种电子烟,尤其是一种插拔式电子烟。包括烟管及烟嘴,所述的烟管内设有电池,所述的烟嘴内设有雾化器组件,所述的烟管和烟嘴通过可插拔接触片连接安装。本实用新型的插拔式电子烟的烟管和烟嘴连接处通过可插拔接触片来实现结构及电路的连接,在生产和使用时,通过简单的插拔操作即可实现安装或者拆分,大幅提高了装配和更换部件的便利性,另外烟管和烟嘴可以分离更换,降低了用户的使用成本。



1. 一种插拔式电子烟,包括烟管及烟嘴,所述的烟管内设有电池,所述的烟嘴内设有雾化器组件,其特征在于:所述的烟管和烟嘴通过可插拔接触片连接安装。
2. 如权利要求1所述的插拔式电子烟,其特征在于:所述的烟管包括烟管外壳及设于烟管外壳两端的灯帽及母端子固定座,所述的烟管外壳内设有电池,所述的烟管外壳灯帽端内侧设有控制器,母端子固定座中设有与电池相连的负极公接触片和正极母接触片。
3. 如权利要求2所述的插拔式电子烟,其特征在于:所述的控制器设于一控制器固定座内。
4. 如权利要求3所述的插拔式电子烟,其特征在于:所述的烟嘴包括雾化管及设于雾化管两端的吸嘴盖和公端子固定座,雾化管上设有进气孔,所述的雾化器组件设于雾化管中,雾化器组件包括一玻纤管,玻纤管侧壁开设通孔,通孔内穿过一发热丝,玻纤管外部包裹有吸油棉,公端子固定座上设有与发热丝相连的正极公端子和负极母端子。
5. 如权利要求4所述的插拔式电子烟,其特征在于:所述的公端子固定座包括固定座本体及导通进气孔和玻纤管的导通管。
6. 如权利要求5所述的插拔式电子烟,其特征在于:所述的公端子固定座上设有密封圈。

插拔式电子烟

技术领域

[0001] 本实用新型涉及一种电子烟,尤其是一种插拔式电子烟。

背景技术

[0002] 电子烟是一种通过雾化器燃烧烟油产生烟雾以替代传统香烟的产品,由于其使用方便、口味可通过烟油的调配而改变,而且对人体的健康伤害远低于传统香烟,所以近几年在国内外市场得到了广泛而迅速的推广。现有的电子烟一般由位于烟嘴部位的雾化器和位于烟管部位的电池及指示灯组成,在烟嘴与烟管的连接处的连接方式一般有螺纹配合、挤压配合等形式,在使用过程中需要更换部件或者补充烟油时需要拆开烟嘴和烟管进行操作,由于烟嘴和烟管的连接处不仅是物理结构的连接,还有电路连接,现有的连接方式不仅不方便拆开,而且容易损坏电路,造成电子烟不能使用。

发明内容

[0003] 本实用新型提供一种便于进行雾化器和电子烟电池的安装与拆分、电子烟电池充电方便性、结构及电路的稳定性好的插拔式电子烟。

[0004] 为了实现上述目的,本实用新型采用如下技术方案:

[0005] 它包括烟管及烟嘴,所述的烟管内设有电池,所述的烟嘴内设有雾化器组件,其改进在于:所述的烟管和烟嘴通过可插拔接触片连接安装。

[0006] 优选地,所述的烟管包括烟管外壳及设于烟管外壳两端的灯帽及母端子固定座,所述的烟管外壳内设有电池,所述的烟管外壳灯帽端内侧设有控制器,母端子固定座中设有与电池相连的负极公接触片和正极母接触片。

[0007] 优选地,所述的控制器设于一控制器固定座内。

[0008] 优选地,所述的烟嘴包括雾化管及设于雾化管两端的吸嘴盖和公端子固定座,雾化管上设有进气孔,所述的雾化器组件设于雾化管中,雾化器组件包括一玻纤管,玻纤管侧壁开设通孔,通孔内穿过一发热丝,玻纤管外部包裹有吸油棉,公端子固定座上设有与发热丝相连的正极公端子和负极母端子。

[0009] 优选地,所述的公端子固定座包括固定座本体及导通进气孔和玻纤管的导通管。

[0010] 优选地,所述的公端子固定座上设有密封圈。

[0011] 由于采用了上述结构,本实用新型的插拔式电子烟的烟管和烟嘴连接处通过可插拔接触片来实现结构及电路的连接,在生产和使用时,通过简单的插拔操作即可实现安装或者拆分,大幅提高了装配和更换部件的便利性,另外烟管和烟嘴可以分离更换,降低了用户的使用成本。

附图说明

[0012] 图1是本实用新型实施例的整体拆分结构示意图;

[0013] 图2是本实用新型实施例的烟管的爆炸结构示意图;

[0014] 图 3 是本实用新型实施例的烟嘴的爆炸结构示意图；

[0015] 图 4 是本实用新型实施例的整体截面结构示意图。

具体实施方式

[0016] 如图 1-4 所示,本实施例的插拔式电子烟包括烟管 1 及烟嘴 2,所述的烟管 1 内设有电池,所述的烟嘴 2 内设有雾化器组件,所述的烟管和烟嘴通过可插拔接触片连接安装。

[0017] 具体地,本实施例中所述的烟管 1 包括烟管外壳 11 及设于烟管外壳 11 两端的灯帽 12 及母端子固定座 13,所述的烟管外壳 11 内设有电池 14,所述的烟管外壳 11 灯帽端内侧设有控制器 15,母端子固定座 13 中设有与电池相连的负极公接触片 16 和正极母接触片 17。

[0018] 为了进一步实现控制器的稳定安装,本实施例中,所述的控制器 15 设于一控制器固定座 18 内。

[0019] 本实施例中,所述的烟嘴 2 包括雾化管 21 及设于雾化管 21 两端的吸嘴盖 22 和公端子固定座 23,雾化管 21 上设有进气孔 24,所述的雾化器组件设于雾化管 21 中,雾化器组件包括一玻纤管 25,玻纤管 25 侧壁开设通孔,通孔内穿过一发热丝 26,玻纤管 25 外部包裹有吸油棉 27,公端子固定座 23 上设有与发热丝相连的正极公端子 28 和负极母端子 29。

[0020] 本实施例中,所述的公端子固定座 23 包括固定座本体 231 及导通进气孔 24 和玻纤管 25 的导通管 232。图 4 中的箭头为使用时的气流方向,空气由进气孔 24 进入,经过导通管 232 进入玻纤管,经发热丝 26 加热雾化后由吸嘴盖 22 排出。

[0021] 为了增强烟嘴部分的密封性,本实施例中,在所述的公端子固定座 23 上设有密封圈 3。

[0022] 以上所述仅为本实用新型的优选实施例,并非因此限制本实用新型的专利范围,凡是利用本实用新型说明书及附图内容所作的等效结构或等效流程变换,或直接或间接运用在其他相关的技术领域,均同理包括在本实用新型的专利保护范围内。

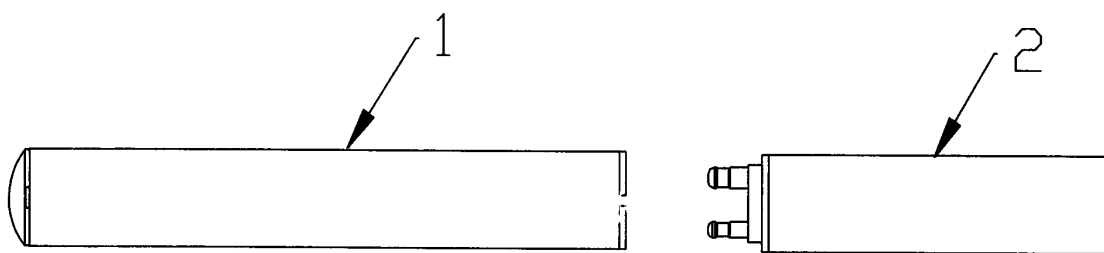


图 1

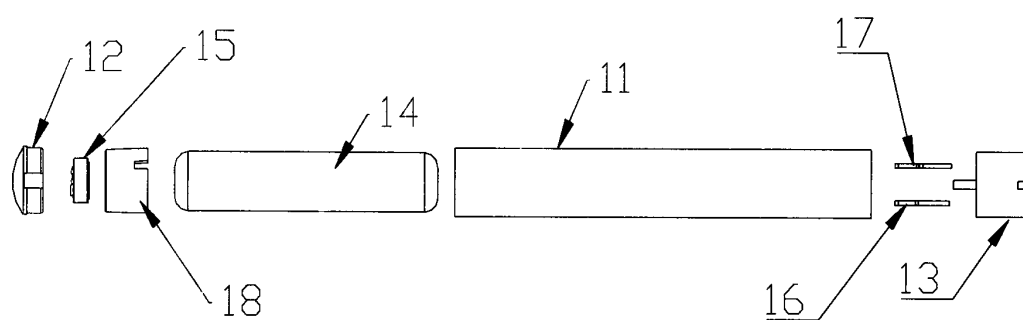


图 2

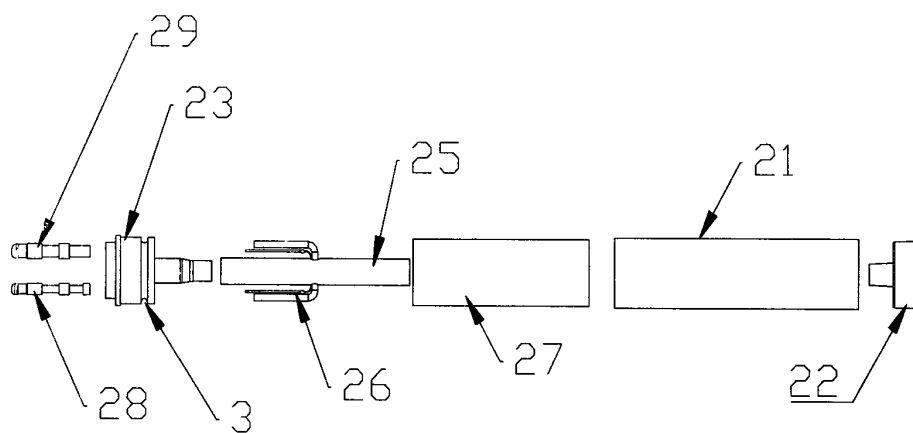


图 3

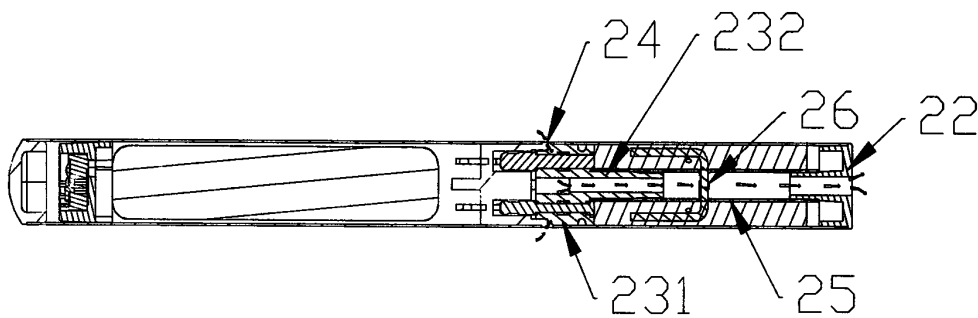


图 4