

## ELECTRONIC VAPORIZER WITH SELF INFLICTING SHOCK DEVICE

### BACKGROUND OF THE INVENTION

#### Field of the Invention

**[0001]** The present invention relates to electronic smoking apparatuses used to control the consumption of nicotine via a data collection system and low voltage shocking mechanism.

#### Description of Related Art Including Information Disclosed Under 37 CFR 1.97 and 37 CFR 1.98

**[0002]** E-cigarettes and other vaping tools were created as a way to lessen the use of tobacco and cigarettes by giving users a similar sensation to inhaling tobacco smoke without the smoke. This is done through a battery-operated device that emits doses of vaporized nicotine or other non-nicotine solutions for the user to inhale. These vaping tools come with health risks of their own and have led to many who had not previously smoked tobacco developing nicotine addictions.

**[0003]** US Patent 10,463,079 issued November 5, 2019, by Benette, Marsh, Memari, Murison for "E-Cigarette Personal Vaporizer" A user-replaceable e-liquid reservoir for dispensing e-liquid, the reservoir being inserted into, or otherwise attached to, a portable, personal e-cigarette device and engaging with an electrical or electronic pump fluid transfer system in the device, the device including: an electrical or electronic pump, being configured to transfer e-liquid from the e-liquid reservoir to an atomizing unit in the device, the pump delivering a pre-defined or variable quantity of e-liquid from the reservoir; and in which the reservoir is not user-refillable.

**[0004]** US Patent 10,433,588 issued October 8, 2019 by Coelho Belo Fernandes De Carvalho for "Personal Vaporizer System" discloses a personal vaporizer system with

an e-liquid reservoir isolated from the atomizer. The isolation of the e-liquid reservoir from the atomizer eliminates particles contamination of the e-liquid held in the reservoir and chemical reactions between the atomizer and the e-liquid. Since the residence time of “fresh” e-liquid in the atomizer is only the necessary to vaporize a very small amount of e-liquid, particles contamination of the produced vapor and chemical reactions between the e-liquid and atomizer components are dramatically reduced. This represents a huge health benefit for the consumer, compared to all other personal vaporizers with an e-liquid reservoir. The disclosed system can be used in any type of personal vaporizer, for example in the electric cigarette market.

**[0005]** US Patent 10,420,904 issued September 24, 2019, by Fornarelli for “Disposable Tank and Mod Assembly” discloses a disposable medical grade tank and mod assembly for dose controlled smokeless administration for a plurality of vaporized chemicals, and method of use thereof.

**[0006]** US Patent 8,781,307 issued Jul. 15, 2014, by Buzzetti for “A portable vaporizer having an electronic control unit electrically coupled to a power source and an atomizer. The electronic control unit utilizes a voltage regulator which allows changes in an output voltage supplied to the atomizer in response to a change in electrical resistance of a potentiometer incorporated therewith.”

**[0007]** While previous arts attempt to reduce the health risks of e-cigarettes and personal vaporizers, none attempt to solve the problem at the source by discouraging the tools as a whole. Even one of the least harmful vaporizers still comes with significant health risks.

**BRIEF SUMMARY OF THE INVENTION**

**[0008]** A vaporizer electronic smoking device designed to encourage users to quit. When the fire button on the vaporizer is pressed, the user's index finger or thumb is shocked. The vaping device also logs user data and posts on social media.

#### BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S)

**[0009] FIG. 1** is an isometric view of the device

**[0010] FIG. 2** is a front view of the device's interface

**[0011] FIG. 3** is a spliced view of the device's internals

#### List of Reference Numerals

**[0011] 1** Inner Lining

**[0012] 2** Outer Shell

**[0013] 3** Battery Cover Connection

**[0014] 4** Battery Cover

**[0015] 5** Battery Connector

**[0016] 6** Interface button

**[0017] 8** Hole in Outer Shell

**[0018] 10** Charging Port

**[0019] 12** Digital Screen

**[0020] 14** Button with Shocking Device

**[0021] 19** Connection to Battery

**[0022] 20** Battery

**[0023] 22** Conductive Plate

#### DETAILED DESCRIPTION OF THE INVENTION

**[0024]** The electronic vaporizer with a shocking mechanism of the present invention is a device that can easily be implemented in place of other electronic smoking apparatuses. The device is lightweight, portable, and comes with a rechargeable battery. Like any other electronic vaporizer mod box, the user can hold the device in their hand, put it up to their mouth, push the button with their thumb or index finger depending on how the present invention is held and inhale.

**[0025]** The device of the present invention prevents usage through a low voltage shock administered to the user's finger or thumb when pressing the button. The device keeps data of usage and is displayed on the digital screen. In addition, usage is reported to various social media outlets and mobile phone app via a wireless connection.

**[0026]** With reference to **FIG. 1** and **FIG. 2**, the visual representation of the present invention, an outer shell **2** encases a button with shocking device **14**, a digital screen **12**, and an interface button **6**. There are two holes in the outer shell **8** to allow for a charging port **10** and the digital screen **12**. The outer shell **2** has a battery cover **4** that can be opened and closed.

**[0027]** With reference to **FIG. 3** the internal components are displayed. When opening the battery cover **4**, the battery **20** can be removed for external charging and re-inserted for use. When the battery **20** is in the device, it is connected by the battery connector **5**. When a user pushes down on the button with shocking device **14**, the connection to the battery **19** sends the low wattage shock to the user's finger or thumb. The battery cover **4** is held in place by the battery connection **3**. The inner lining **1** is made of rubber and protects the components. The interface button **6** allows the user to turn the digital screen **12** on and off, and control the settings of the device.

[0028] With reference to FIG. 3 the battery 20 is held in position by a Battery connector 5. This connection allows for a low wattage current to be sent to the button via the shocking device 20. When the user presses on the button 14, a connection to the battery 19 is established and allows for the electrical current to flow through the button using the shocking device 14 as an electrical bridge, therefore shocking the user. The interface button 6 is used to change settings such as the wattage that is sent to the button with shocking device 14 and alongside the visual representation of usage and wattage power on the digital screen 12.

[0029] With reference to FIG. 1, the button with shocking device 14 has a conductive plate 22 comprising of two nodes: a positive node and a negative node. The circuit is completed only when he or she pushes the button. The positive side of the conductive plate allows current to flow through the user's body and back into the negative side of the conductive plate 22. This achieves the effect of electrically shocking the user while simultaneously firing the vaporizer.

[0030] The Electronic Vaporizing Device with Self Inflicting Shock Device has a circuit contained within the digital screen 12 that allows for wireless connectivity and gives the device the ability to export data to a mobile phone app. The data contains logs that keep track of the number of times the button with shocking device was pushed. The mobile app then sends information to social online apps to encourage the user to quit the usage of nicotine.

[0031] Although the present invention has been described with reference to specific embodiments, it is understood that modifications and variations of the present invention are possible without departing from the scope of the invention, which is defined by the

claims set forth below. Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. Any methods and materials similar or equivalent to those described herein can also be used in the practice or testing of the present invention; however, the preferred methods and materials are now described.

## CLAIMS

The invention claimed is:

1. An electronic vaporizer with a self-inflicting shock device comprising:
  - a. A plastic shell; wherein there is a large opening on the back and side; further wherein various smaller openings on the front and top;
  - b. A battery power source placed within the shell;
  - c. A removable cover located on the side of the device within which the battery can be placed and sealed;
  - d. A digital screen attached to the front of the device; wherein it fills one of the smaller gaps at the front of the shell; further wherein it is used to display settings and options of the device;
  - e. Two buttons used to alter the settings displayed on the digital screen;
  - f. A standardized electronic vaporizer circuit connected to the display; wherein the circuit has the capability to connect to a cellular device; further wherein the circuit controls the firing of the electronic vaporizer;
  - g. An activator button filling in one of the smaller holes located at the front of the shell; wherein the button connects to the attached vaporizer tank; further wherein the button sends an electrical discharge when pressed; and
  - h. A charging port installed at the bottom of the device.
2. An electronic vaporizer as claimed in claim 1 further wherein the plastic shell is a singular unit that holds all of the pieces.

3. An electronic vaporizer as claimed in claim 1 further wherein the electrical discharge piece delivers a small electric shock whenever the activator button is pressed.
4. An electronic vaporizer as claimed in claim 1 further wherein the power source is a battery.
5. An electronic vaporizer as claimed in claim 1 further wherein the charging port connects to the battery.
6. An electronic vaporizer as claimed in claim 1 further wherein the device that records data uploads all recorded data to a mobile device application.



## ABSTRACT

The present invention is a method of discouraging the use of personal vaporizer systems and E-cigarettes through negative reinforcement. The method comprises of a personal vaporizer system that contains a low voltage shocking mechanism. When a user activates the vaporizer system, they will be met with an electric shock. This is based on the idea that after receiving the shock, the user will begin to associate using the personal vaporizer with the pain received from the shock, and will thus be less likely to want to use the personal vaporizer or other types of E-cigarettes. The present invention will also record data as it is used, as another way of discouraging the use of personal vaporizers. If the device is used enough times, a post will automatically be made on the user's social media, revealing all the data that it had collected throughout its use.

DRAWINGS

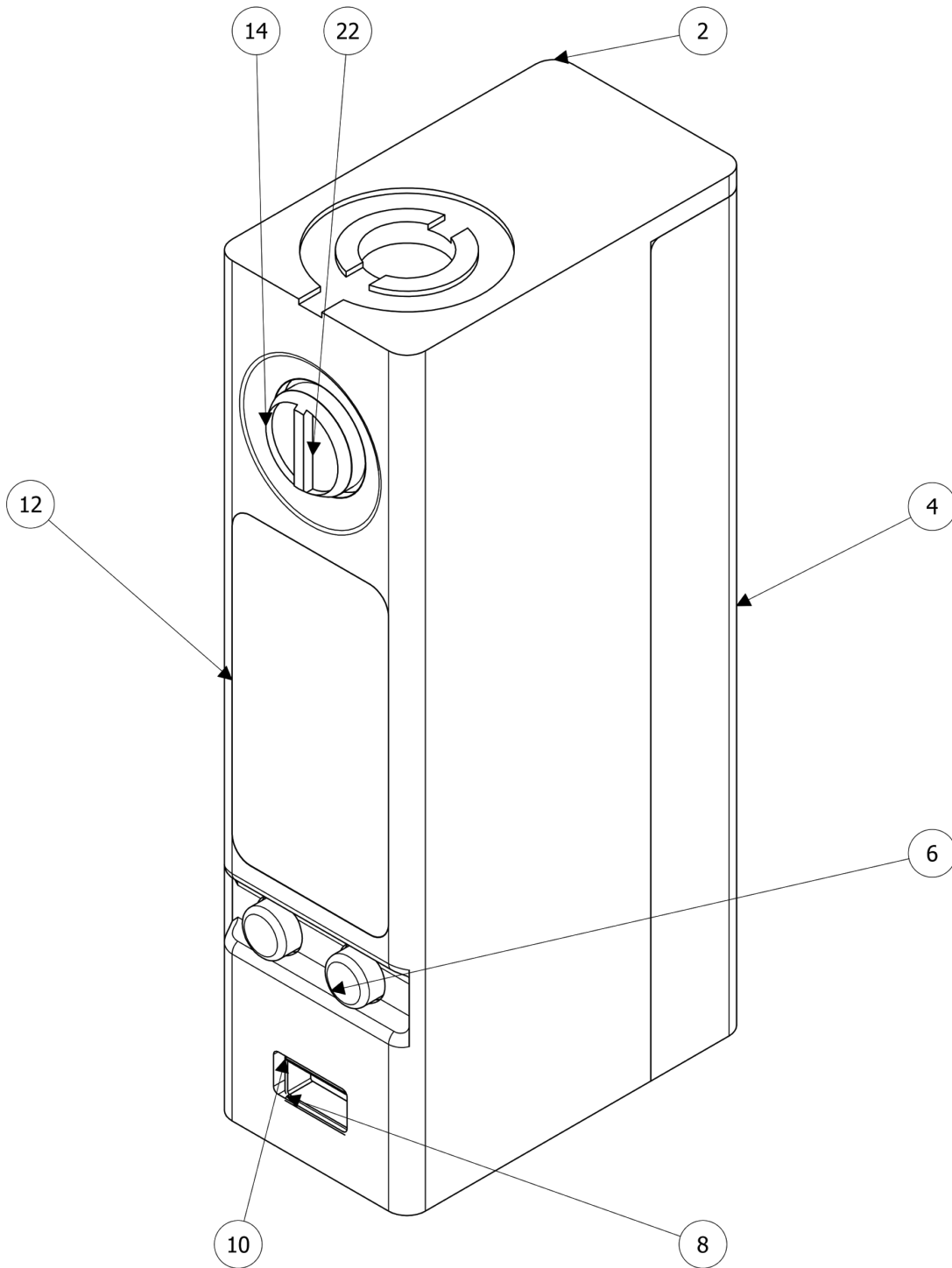
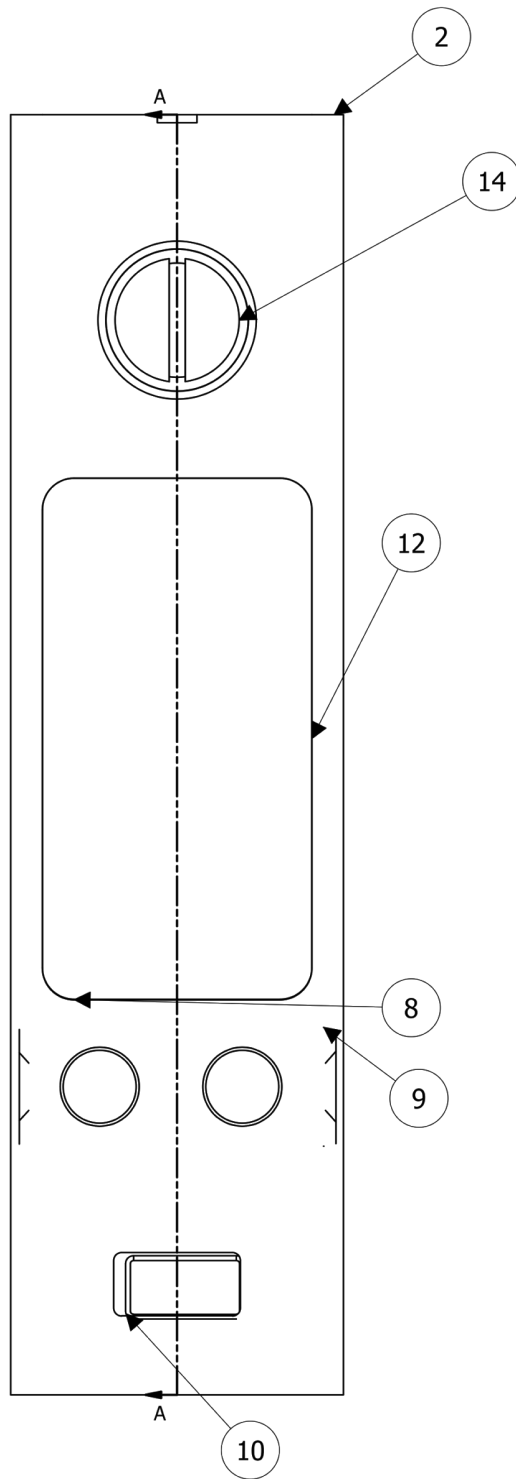
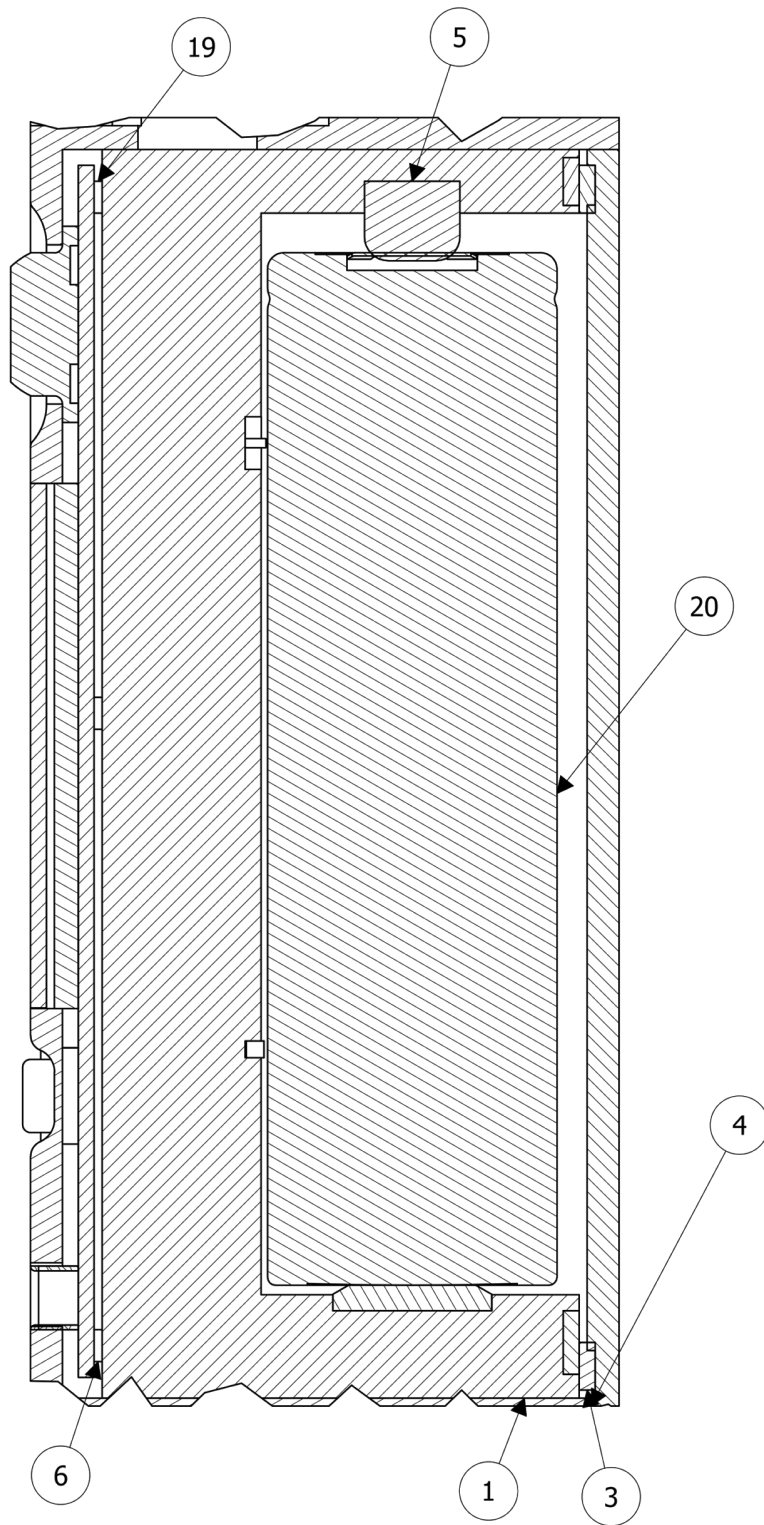


Figure 1



**Figure 2**



**Figure 3**