



US 20070267031A1

(19) **United States**

(12) **Patent Application Publication**
Hon

(10) **Pub. No.: US 2007/0267031 A1**
(43) **Pub. Date: Nov. 22, 2007**

(54) **ELECTRONIC ATOMIZATION CIGARETTE**

(76) Inventor: **Lik Hon**, Hong Kong (CN)

Correspondence Address:
PERKINS COIE LLP
POST OFFICE BOX 1208
SEATTLE, WA 98111-1208 (US)

(21) Appl. No.: **10/587,707**

(22) PCT Filed: **Mar. 18, 2005**

(86) PCT No.: **PCT/CN05/00337**

§ 371(c)(1),
(2), (4) Date: **Mar. 9, 2007**

(30) **Foreign Application Priority Data**

Apr. 14, 2004 (CN) 20040031182.0

Publication Classification

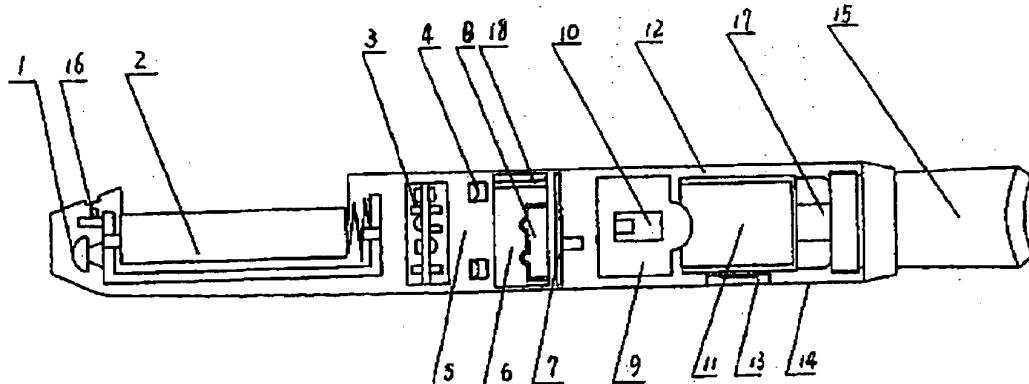
(51) **Int. Cl.**
A24F 47/00 (2006.01)

(52) **U.S. Cl.** **131/273; 131/359**

(57)

ABSTRACT

The present invention relates to an electronic atomization cigarette which only contains nicotine without harmful tar. The electronic atomization cigarette includes a shell and a mouthpiece. The external wall of the shell has an air inlet. An electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquid-supplying bottle are sequentially provided within the shell, wherein the electronic circuit board comprises an electronic switching circuit and a high frequency generator. A stream passage of the sensor is provided on one side of the sensor, and a negative pressure cavity is provided in the sensor. The atomizer and the liquid-supplying bottle is in contact with each other. An atomization cavity is arranged in the atomizer. A retaining ring for locking the liquid-supplying bottle is provided between one side of the liquid-supplying bottle and the shell, and an aerosol passage is provided on the other side of the liquid-supplying bottle. The air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, gas vent and mouthpiece are sequentially interconnected. The advantages of the present invention include smoking without tar, significantly reducing the cancerogenic risk. Furthermore, users still feel as if they are smoking and experiencing the same excitement, and the cigarette is no need to be lit and is no fire risk.



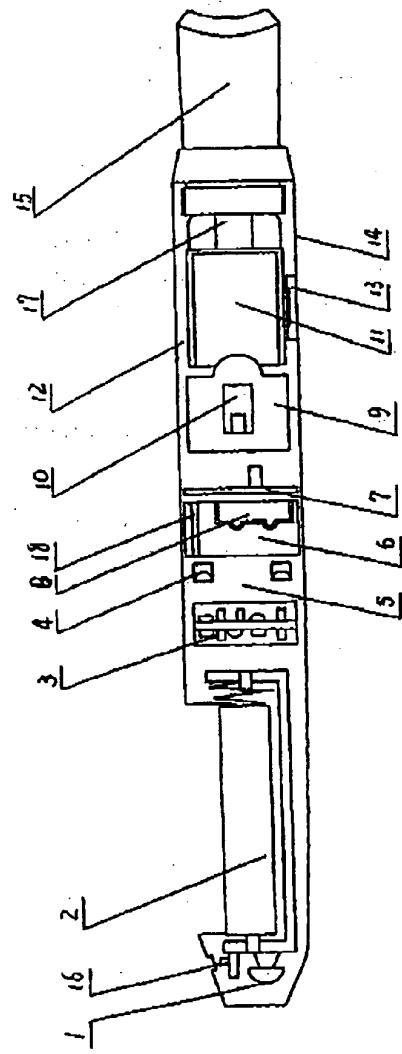


Fig. 1

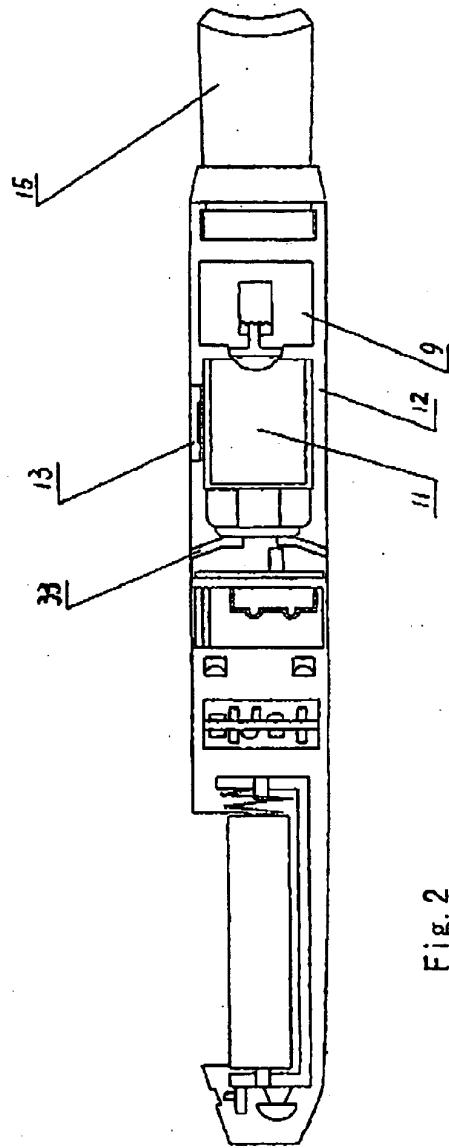


Fig. 2

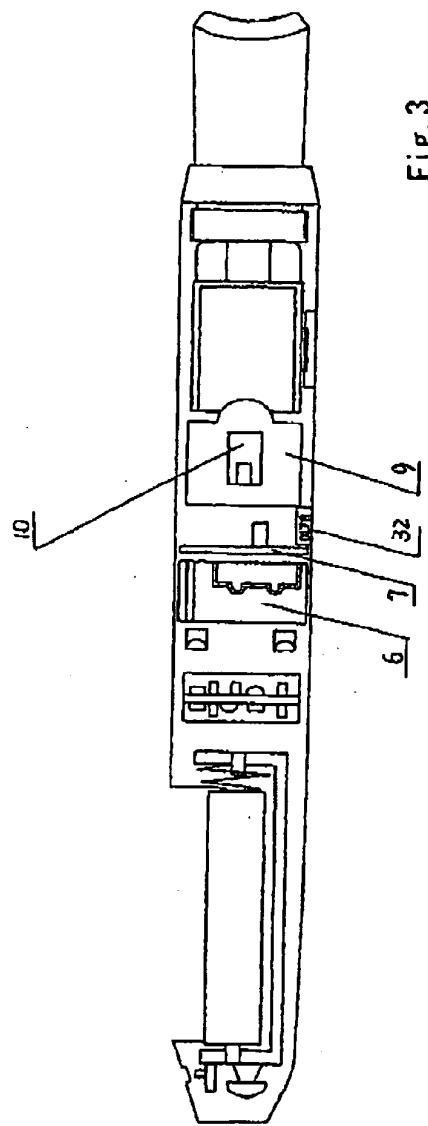


Fig. 3

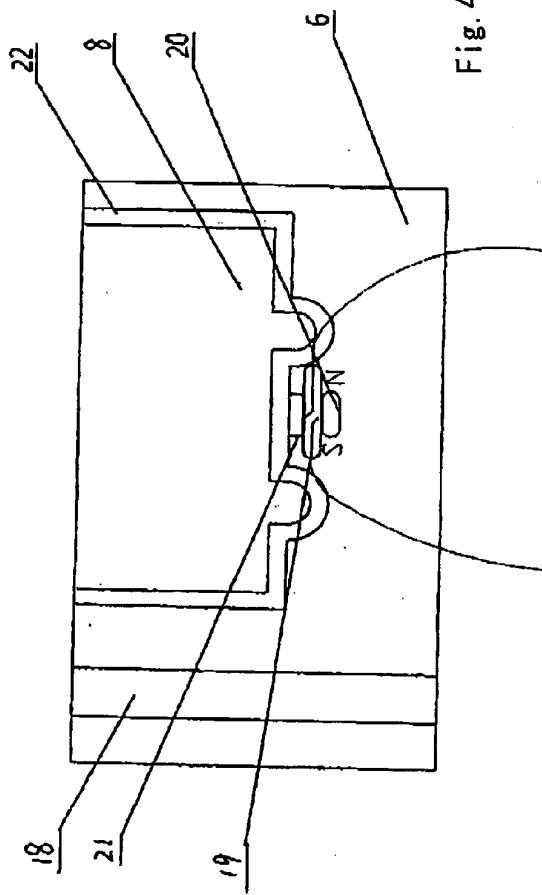


Fig. 4

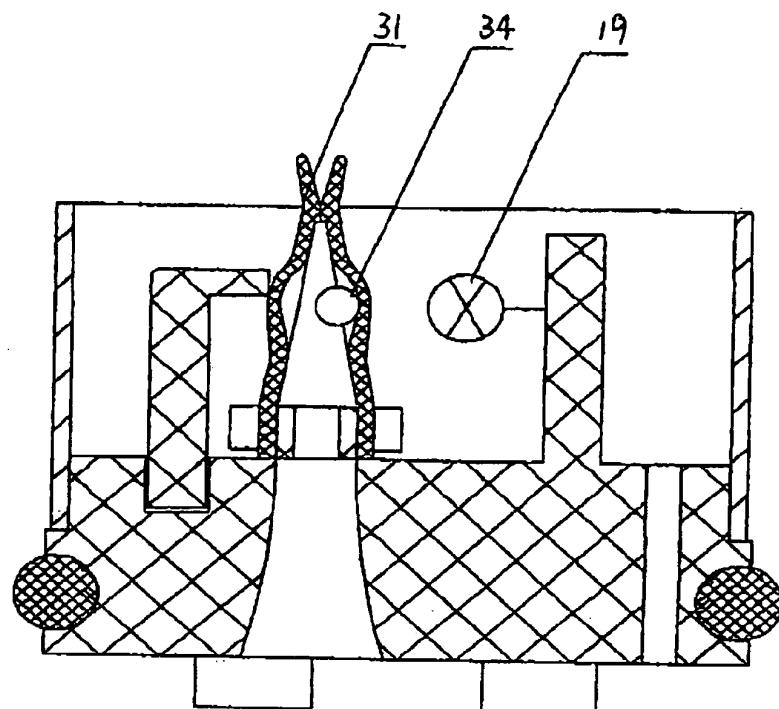


Fig. 5

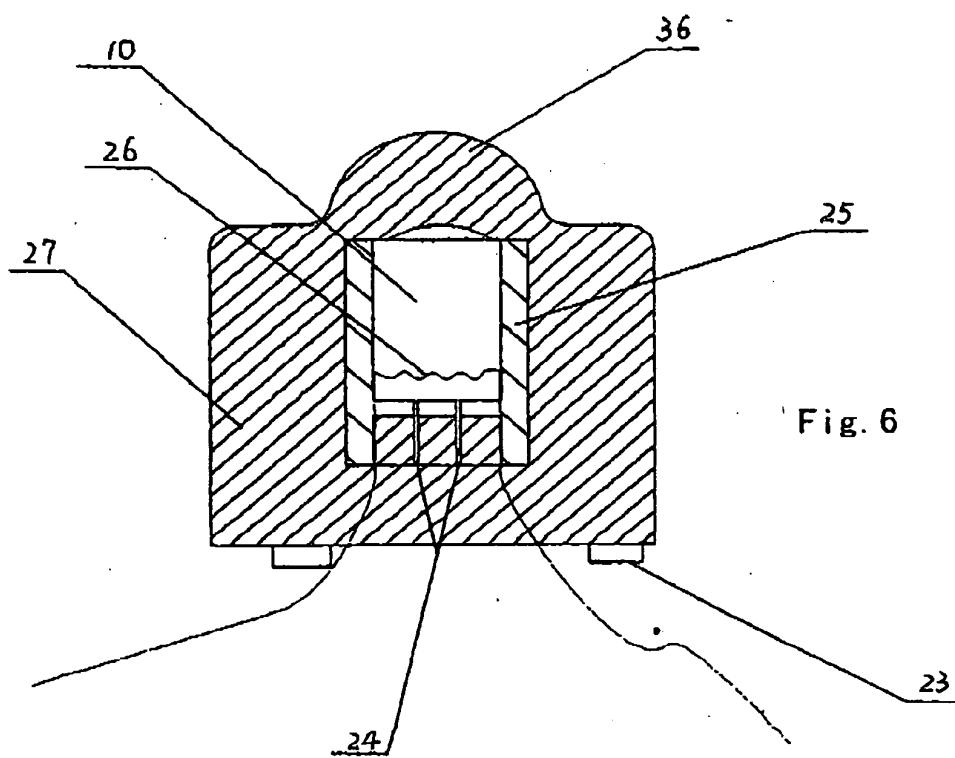


Fig. 6

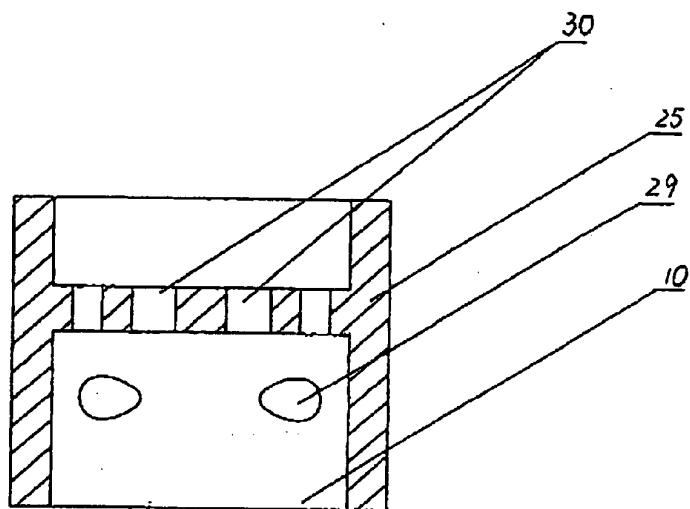


Fig. 7

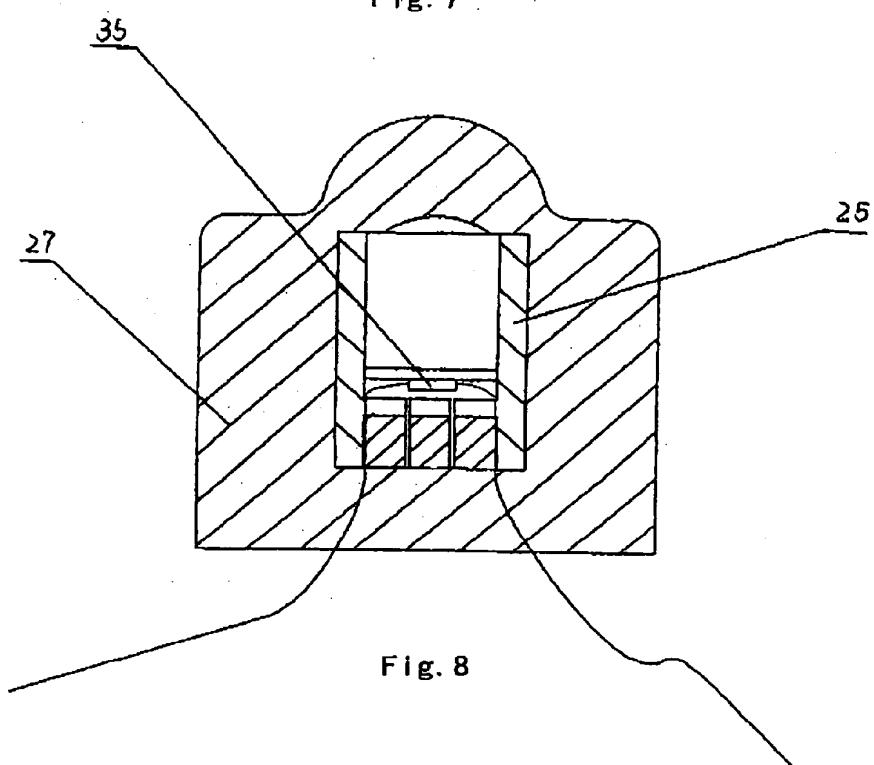


Fig. 8

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.