(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 4 792 674 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.10.2026 Bulletin 2026/43

(43) Date of publication A2:
19.08.2026 Bulletin 2026/34

(21) Application number: **26189960.3**

(22) Date of filing: **21.06.2023**

(51) International Patent Classification (IPC):
A24F 40/485 *(2020.01)*

(52) Cooperative Patent Classification (CPC):
A24F 40/485; A24F 40/10; A24F 40/40; A24F 40/46

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: **21.06.2022 CN 202210702597**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
23180666.2 / 4 295 716

(71) Applicant: **Shenzhen Smoore Technology Limited**
Shenzhen, Guangdong 518102 (CN)

(72) Inventors:
- **WU, Kai**
  Shenzhen Guangdong, 518102 (CN)
- **ZHANG, Chao**
  Shenzhen Guangdong, 518102 (CN)

(74) Representative: **Westphal, Mussgnug & Partner, Patentanwälte mbB**
Werinherstraße 79
81541 München (DE)

(54) ELECTRONIC VAPORIZATION DEVICE AND VAPORIZER THEREOF

(57) The present invention relates to an electronic vaporization device and a vaporizer thereof. The vaporizer includes a liquid storage cavity and a heating assembly configured to heat and vaporize an aerosol-forming substrate in the liquid storage cavity. The heating assembly includes a first end surface facing the liquid storage cavity. The vaporizer further includes an isolating member including an isolating portion. The isolating portion is arranged between the heating assembly and the liquid storage cavity, covers the first end surface, and isolates the liquid storage cavity from the heating assembly. The isolating member further comprises a plurality of liquid guide holes provided in the isolating portion at intervals. The plurality of liquid guide holes are arranged through the thickness direction of the isolating portion. In the vaporizer, the heating assembly may be prevented from being in direct contact with the aerosol-forming substrate in the liquid storage cavity, thereby improving a vaporization effect, improving a vaporization taste, and reducing occurrence of liquid leakage.

EP 4 792 674 A3

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 26 18 9960

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 2019/157650 A1 (SHENZHEN SMOORE TECHNOLOGY LTD [CN]) 22 August 2019 (2019-08-22) * the whole document *	1-15	INV. A24F40/485
A	CN 206 079 042 U (SHENZHEN FIRST UNION TECH CO) 12 April 2017 (2017-04-12) * the whole document *	1-15	
A	EP 3 991 580 A1 (SHENZHEN FIRST UNION TECH CO [CN]) 4 May 2022 (2022-05-04) * paragraphs [0035] - [0038]; figures *	1-15	

TECHNICAL FIELDS SEARCHED (IPC)

A24F

The present search report has been drawn up for all claims

1

Place of search	Date of completion of the search	Examiner
Munich	8 September 2026	Kock, Søren

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 26 18 9960

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-09-2026

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2019157650 A1	22-08-2019	CN 213639660 U	09-07-2021
		CN 224572258 U	31-07-2026
		WO 2019157650 A1	22-08-2019
CN 206079042 U	12-04-2017	NONE	
EP 3991580 A1	04-05-2022	EP 3991580 A1	04-05-2022
		US 2022256925 A1	18-08-2022
		WO 2020259692 A1	30-12-2020

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82