

Title (en)  
ATOMIZER

Title (de)  
ZERSTÄUBER

Title (fr)  
ATOMISEUR

Publication  
**EP 4298927 A1 20240103 (EN)**

Application  
**EP 23181720 A 20230627**

Priority  
CN 202221640744 U 20220628

Abstract (en)  
[origin: CN218104922U] The utility model relates to an atomizer which is used for heating and atomizing an aerosol generating substrate, the atomizer comprises a body with a containing cavity, and the containing cavity is provided with an open end and a closed end which are oppositely arranged; the substrate section and the hollow section of the aerosol generating substrate are inserted into the containing cavity, and a gap exists between the aerosol generating substrate and the cavity side wall of the containing cavity so that a first airflow channel communicating with the first air collecting hole and a second airflow channel communicating with the first airflow channel and the second air collecting hole can be formed. According to the atomizer, due to the fact that the main flowing path of the airflow does not pass through the heating section of the containing cavity and the bottom of the end, away from the hollow section, of the substrate section, the baking temperature in the heating section is stable, and the phenomenon that the baking degree of the aerosol generating substrate is changed due to obvious temperature change is avoided; the aerosol generating substrate can be fully baked in the containing cavity, effective substances in the aerosol generating substrate can be fully released, the taste of aerosol is improved, and the use experience of the atomizer is effectively improved.

IPC 8 full level  
**A24D 1/20** (2020.01); **A24F 40/485** (2020.01); **A24F 40/20** (2020.01); **A24F 40/30** (2020.01)

CPC (source: EP KR)  
**A24D 1/027** (2013.01 - EP KR); **A24D 1/045** (2013.01 - KR); **A24D 1/20** (2020.01 - EP KR); **A24D 3/0279** (2013.01 - KR); **A24D 3/043** (2013.01 - KR); **A24F 40/30** (2020.01 - KR); **A24F 40/40** (2020.01 - KR); **A24F 40/46** (2020.01 - KR); **A24F 40/485** (2020.01 - EP KR); **A24F 40/10** (2020.01 - EP KR); **A24F 40/20** (2020.01 - EP KR); **A24F 40/30** (2020.01 - EP); **A24F 40/40** (2020.01 - EP)

Citation (search report)  
• [XA] WO 2021180968 A1 20210916 - PHILIP MORRIS PRODUCTS SA [CH]  
• [XA] CN 112754067 A 20210507 - CHINA TOBACCO HENAN IND CO LTD  
• [XA] WO 2022128826 A1 20220623 - PHILIP MORRIS PRODUCTS SA [CH]  
• [XA] US 2020375249 A1 20201203 - YANEZ IGNACIO SUAREZ [GB]

Designated contracting state (EPC)  
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

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4298927 A1 20240103**; CN 218104922 U 20221223; JP 2024004477 A 20240116; KR 20240002216 A 20240104;  
WO 2024001775 A1 20240104

DOCDB simple family (application)  
**EP 23181720 A 20230627**; CN 202221640744 U 20220628; CN 2023100116 W 20230614; JP 2023102318 A 20230622;  
KR 20230082482 A 20230627