

## Title (en)

GEL-TYPE AEROSOL-GENERATING SUBSTRATE CARTRIDGE INSERTABLE INTO ELECTRICALLY HEATED SMOKING ARTICLE,  
ELECTRICALLY HEATED SMOKING ARTICLE COMPRISING SAME, AND AEROSOL GENERATION DEVICE AND SYSTEM THEREFOR

## Title (de)

IN EINEN ELEKTRISCH BEHEIZTEN RAUCHARTIKEL EINSETZBARE GELARTIGE AEROSOLERZEUGENDE SUBSTRATKARTUSCHE,  
ELEKTRISCH BEHEIZTER RAUCHARTIKEL MIT DERSELBEN SOWIE AEROSOLERZEUGUNGSVORRICHTUNG UND SYSTEM DAFÜR

## Title (fr)

CARTOUCHE DE SUBSTRAT PRODUISANT UN AÉROSOL DE TYPE GEL POUVANT ÊTRE INSÉRÉE DANS UN ARTICLE À FUMER  
CHAUFFÉ ÉLECTRIQUEMENT, ARTICLE À FUMER CHAUFFÉ ÉLECTRIQUEMENT LA COMPRENANT, ET DISPOSITIF ET SYSTÈME DE  
PRODUCTION D'AÉROSOL ASSOCIÉS

## Publication

**EP 3915403 A4 20221116 (EN)**

## Application

**EP 20744553 A 20200128**

## Priority

- KR 20190009335 A 20190124
- KR 20190111764 A 20190909
- KR 20190112232 A 20190910
- KR 20190119221 A 20190927
- KR 20190119452 A 20190927
- KR 20190123735 A 20191007
- KR 20190150222 A 20191121
- KR 2020001279 W 20200128

## Abstract (en)

[origin: EP3915403A1] The present invention provides a gel aerosol-forming substrate cartridge that can be inserted into an electrically heated smoking article, the gel aerosol-forming substrate cartridge comprising: a gel aerosol-forming substrate containing glycerin and gelatin, which exists in gel form, semi-solid form, or solidified form in a first temperature range including room temperature, changes to a liquid form in a second temperature range including 70 °C, and is vaporized into an aerosol in a temperature range of 150 to 400 °C; a gel receptor that receives the gel aerosol-forming substrate; and wrapping paper wrapped around the side of the gel receptor in a cylindrical shape measuring 7 to 20 mm long and 5 to 8 mm in diameter, and also provides an electrically heated smoking article comprising: a filter; the gel aerosol-forming substrate cartridge located upstream of the filter; and a tobacco filler containing shredded tobacco located upstream of the filter and located upstream or downstream of the gel aerosol-forming substrate cartridge, wherein the filter, gel aerosol-forming substrate cartridge, and tobacco filler are wrapped in wrapping paper to form a cigarette.

## IPC 8 full level

**A24D 1/20** (2020.01); **A24B 15/167** (2020.01); **A24B 15/28** (2006.01); **A24F 40/30** (2020.01); **A24F 40/42** (2020.01); **A24F 40/465** (2020.01)

## CPC (source: EP KR)

**A24B 15/16** (2013.01 - KR); **A24B 15/167** (2016.11 - EP KR); **A24B 15/281** (2013.01 - EP); **A24B 15/285** (2013.01 - KR);  
**A24B 15/302** (2013.01 - KR); **A24B 15/32** (2013.01 - KR); **A24C 5/01** (2020.01 - KR); **A24C 5/1807** (2013.01 - KR); **A24D 1/20** (2020.01 - EP);  
**A24F 40/46** (2020.01 - KR); **A24F 40/465** (2020.01 - EP); **A24F 40/20** (2020.01 - EP)

## Citation (search report)

- [IA] US 5240016 A 19930831 - NICHOLS WALTER A [US], et al
- [E] WO 2020130752 A1 20200625 - EM TECH CO LTD [KR]
- [E] EP 3900552 A1 20211027 - INNO IT CO LTD [KR]
- See also references of WO 2020153829A1

## Cited by

EP3917341A4; WO2023214746A1; US11606969B1; US11632981B2

## 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 MK MT NL NO PL PT RO RS SE SI SK SM TR

## DOCDB simple family (publication)

**EP 3915403 A1 20211201**; **EP 3915403 A4 20221116**; CN 113329644 A 20210831; CN 113329644 B 20230324; KR 20200092268 A 20200803;  
KR 20220157335 A 20221129; KR 20240017030 A 20240206

## DOCDB simple family (application)

**EP 20744553 A 20200128**; CN 202080010593 A 20200128; KR 20200009697 A 20200128; KR 20220149132 A 20221110;  
KR 20240009365 A 20240122