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(54) **CANNABIS-BASED AEROSOL-GENERATING SUBSTRATES, ARTICLES, SYSTEMS, AND METHODS WITH CONTROLLED CANNABINOID DELIVERY**

(57) An aerosol-generating substrate, manufacturing method, and aerosol-generating system for controlled cannabinoid delivery. The substrate contains 25% to 90% by weight cannabis with 2% to 5% moisture content and features interior air channels extending longitudinally. Manufacturing involves mechanical comminution to achieve particle sizes of 1 μm to 150 μm D90, freeze-drying to control moisture, mixing with skeletal material, binder, and flavoring, and extrusion to form the channeled substrate structure. The aerosol-generating system heats the substrate to produce aerosol delivering 3 mg to 10 mg mass per puff with 1.5 mg to 5.0 mg cannabinoid content under standard testing conditions, enabling consistent and controlled cannabinoid administration.

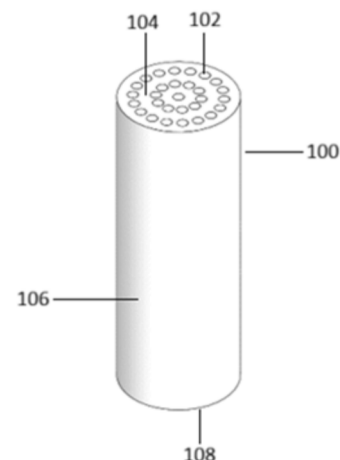


FIG. 1A



EUROPEAN SEARCH REPORT

Application Number

EP 26 15 3234

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		3 September 2026	Dimoula, Kerasina
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	



EUROPEAN SEARCH REPORT

Application Number

EP 26 15 3234

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	CA 3 203 097 A1 (HEXO OPERATIONS INC [CA]) 30 June 2022 (2022-06-30) * claims 1-4 *	1-9	
A	WO 2022/115947 A1 (HEXO OPERATIONS INC [CA]) 9 June 2022 (2022-06-09) * claims 2-16 * -----	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		3 September 2026	Dimoula, Kerasina
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			



Application Number

EP 26 15 3234

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9

Aerosol-generating substrate, comprising 25% to 90% by weight of cannabis, wherein the aerosol-generating substrate has an interior comprising a plurality of air channels, each of the air channels extending to at least one end of the aerosol-generating substrate in a longitudinal direction, and wherein a moisture content of the aerosol-generating substrate is from 2% to 5% by weight.

Method of manufacturing said aerosol-generating substrate

2. claims: 10-15

Aerosol-generating system, comprising: an aerosol-generating article comprising an aerosol-generating substrate, the aerosol-generating substrate comprising cannabis; and an aerosol-generating device configured to heat the aerosol-generating substrate to generate an aerosol; wherein, during heating, under a puffing regime according to a Health Canada Intense smoking regime, a mass of aerosol per puff is in a range of 3 mg to 10 mg, and a cannabinoid content per puff is in a range of 1.5 mg to 10 mg, preferably the cannabinoid content per puff is in a range of 1.5 mg to 5 mg.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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