

(19)



(11)

EP 4 517 002 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
30.04.2025 Bulletin 2025/18

(43) Date of publication A2:
05.03.2025 Bulletin 2025/10

(21) Application number: **24206623.1**

(22) Date of filing: **23.04.2020**

(51) International Patent Classification (IPC):
D21H 27/00 (2006.01) **A24D 1/02** (2006.01)
A24F 40/40 (2020.01) **A24F 47/00** (2020.01)
A24D 1/20 (2020.01) **D21H 19/22** (2006.01)
D21H 27/10 (2006.01)

(52) Cooperative Patent Classification (CPC):
A24D 1/02; A24D 1/20; D21H 19/22; D21H 27/10;
A24F 40/20

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

(30) Priority: **13.05.2019 JP 2019090766**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
20805474.2 / 3 971 345

(71) Applicant: **Japan Tobacco Inc.**
Tokyo 105-6927 (JP)

(72) Inventors:
• **AKIYAMA, Narumi**
Sumida-ku, Tokyo, 130-8603 (JP)
• **TSUTSUMI, Takeo**
Sumida-ku, Tokyo, 130-8603 (JP)
• **MOTODAMARI, Tetsuya**
Sumida-ku, Tokyo, 130-8603 (JP)

(74) Representative: **Hoffmann Eitle**
Patent- und Rechtsanwälte PartmbB
Arabellastraße 30
81925 München (DE)

(54) **NON-COMBUSTION-HEATING FLAVOR INHALING ARTICLE AND ELECTRIC-HEATING FLAVOR INHALING SYSTEM**

(57) A non-combustion-heating flavor inhaling article includes a tobacco part having: a tobacco filler including a tobacco filling material and a volatile flavor; and a wrapper surrounding the tobacco filler. A diffusion coefficient

of the wrapper is 0 cm/s or greater, and an upper limit of the diffusion coefficient is between 0.022 cm/s and 0.10 cm/s.

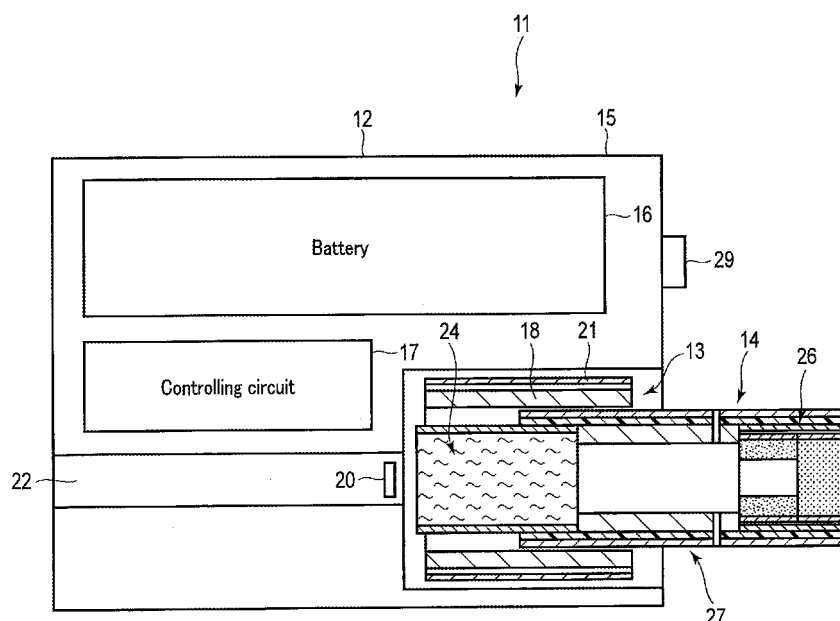


FIG. 1

EP 4 517 002 A3



EUROPEAN SEARCH REPORT

Application Number

EP 24 20 6623

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 2015/082649 A1 (PHILIP MORRIS PRODUCTS SA [CH]) 11 June 2015 (2015-06-11) * the whole document *	1-14	INV. D21H27/00 A24D1/02 A24F40/40
A	US 5 058 608 A (HENNING PAUL-GEORG [DE] ET AL) 22 October 1991 (1991-10-22) * the whole document *	1-14	A24F47/00 A24D1/20 D21H19/22 D21H27/10
A	US 4 564 030 A (JESSUP TERRY D [US] ET AL) 14 January 1986 (1986-01-14) * the whole document *	1-14	
A	US 2014/318562 A1 (EMMETT ROBERT [CH] ET AL) 30 October 2014 (2014-10-30) * the whole document *	1-14	
			TECHNICAL FIELDS SEARCHED (IPC)
			A24D
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		14 March 2025	Paulson, Bo
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 24 20 6623

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.

14-03-2025

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2015082649 A1	11-06-2015	AU 2014359184 A1	17-03-2016
		BR 112016011257 A2	08-08-2017
		CA 2932333 A1	11-06-2015
		CN 105722416 A	29-06-2016
		EA 201690843 A1	30-09-2016
		EA 202192247 A1	31-12-2021
		EP 3076815 A1	12-10-2016
		EP 3662771 A1	10-06-2020
		EP 3942946 A1	26-01-2022
		EP 4449895 A2	23-10-2024
		ES 2895403 T3	21-02-2022
		ES 2991810 T3	05-12-2024
		HK 1223519 A1	04-08-2017
		HU E056063 T2	28-01-2022
		HU E068236 T2	28-12-2024
		JP 6707447 B2	10-06-2020
		JP 7011675 B2	26-01-2022
		JP 7337971 B2	04-09-2023
		JP 2016538848 A	15-12-2016
		JP 2020054386 A	09-04-2020
		JP 2022050626 A	30-03-2022
		JP 2023159333 A	31-10-2023
		KR 20160094938 A	10-08-2016
		KR 20220145920 A	31-10-2022
		KR 20240090861 A	21-06-2024
US 5058608 A	22-10-1991	PH 12016500335 A1	02-05-2016
		PL 3662771 T3	17-01-2022
		PL 3942946 T3	16-12-2024
		UA 121375 C2	25-05-2020
		US 2016331032 A1	17-11-2016
		WO 2015082649 A1	11-06-2015
US 5058608 A	22-10-1991	BR 9001386 A	09-04-1991
		DD 296604 A5	12-12-1991
		DK 74090 A	22-01-1991
		GR 890100471 A	10-12-1991
		LU 87663 A1	15-05-1990
		PT 92925 A	20-03-1991
		US 5058608 A	22-10-1991
		YU 247389 A	31-08-1991
US 4564030 A	14-01-1986	AT E26644 T1	15-05-1987
		AU 562449 B2	11-06-1987
		BR 8303783 A	21-02-1984
		CA 1211022 A	09-09-1986
		EP 0101173 A1	22-02-1984

EPO FORM P0459

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

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

EP 24 20 6623

14-03-2025

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.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		MX 155797 A	29-04-1988
		US 4564030 A	14-01-1986

US 2014318562 A1	30-10-2014	AR 089183 A1	06-08-2014
		AU 2012343801 A1	17-07-2014
		BR 112014013083 A2	13-06-2017
		CN 104039180 A	10-09-2014
		EP 2785207 A1	08-10-2014
		ES 2733294 T3	28-11-2019
		JP 6523684 B2	05-06-2019
		JP 2015500011 A	05-01-2015
		KR 20140098764 A	08-08-2014
		MX 363083 B	06-03-2019
		MY 185438 A	19-05-2021
		PH 12014501125 A1	04-08-2014
		PL 2785207 T3	29-11-2019
		RU 2014126364 A	27-01-2016
		SG 11201402749S A	27-06-2014
		TR 201910154 T4	21-08-2019
		UA 113860 C2	27-03-2017
		US 2014318562 A1	30-10-2014
		WO 2013079645 A1	06-06-2013

EPO FORM P0459

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