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(54) **CONSUMABLE FOR USE WITH APPARATUS FOR HEATING AEROSOLISABLE MATERIAL**

(57) Described herein is a consumable for use with apparatus for heating aerosolisable material to volatilise at least one component of the aerosolisable material, the consumable comprising a hollow tube comprising a wound structure comprising aerosolisable material.

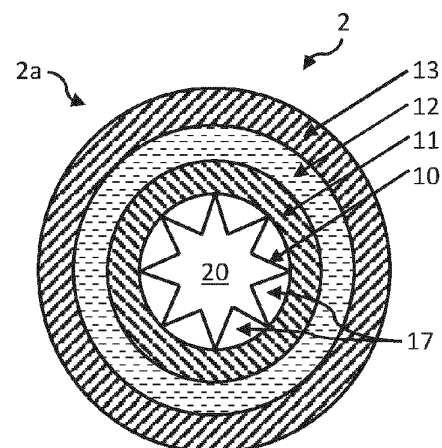


Fig. 4



## EUROPEAN SEARCH REPORT

Application Number

EP 24 21 5502

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category                                                                                                                                                                                                                                               | Citation of document with indication, where appropriate, of relevant passages                                        | Relevant to claim                                                                                                                                                                                                                                                                     | CLASSIFICATION OF THE APPLICATION (IPC)        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| X                                                                                                                                                                                                                                                      | WO 2017/207442 A1 (PHILIP MORRIS PRODUCTS SA [CH]) 7 December 2017 (2017-12-07)                                      | 1-5,<br>7-11,<br>13-15                                                                                                                                                                                                                                                                | INV.<br>A24F40/465                             |
| Y                                                                                                                                                                                                                                                      | * page 12, line 7 - page 14, line 2 *<br>-----                                                                       | 6,12                                                                                                                                                                                                                                                                                  |                                                |
| X                                                                                                                                                                                                                                                      | JP 6 227554 B2 (.)<br>8 November 2017 (2017-11-08)                                                                   | 1-5,<br>7-11,<br>13-15                                                                                                                                                                                                                                                                |                                                |
| Y                                                                                                                                                                                                                                                      | * paragraph [0034] - paragraph [0036] *<br>-----                                                                     | 6,12                                                                                                                                                                                                                                                                                  |                                                |
| X                                                                                                                                                                                                                                                      | US 2017/119049 A1 (BLANDINO THOMAS P [US] ET AL) 4 May 2017 (2017-05-04)                                             | 1-5,<br>7-11,<br>13-15                                                                                                                                                                                                                                                                |                                                |
| Y                                                                                                                                                                                                                                                      | * paragraphs [0061], [0071], [0106] - paragraph [0128] *<br>-----                                                    | 6,12                                                                                                                                                                                                                                                                                  |                                                |
| Y                                                                                                                                                                                                                                                      | WO 2017/145095 A1 (REYNOLDS TOBACCO CO R [US]) 31 August 2017 (2017-08-31)<br>* page 7, line 17 - line 28 *<br>----- | 6                                                                                                                                                                                                                                                                                     | TECHNICAL FIELDS<br>SEARCHED (IPC)<br><br>A24D |
| Y                                                                                                                                                                                                                                                      | US 2015/209530 A1 (WHITE JACKIE L [US])<br>30 July 2015 (2015-07-30)<br>* paragraph [0015] *<br>-----                | 6                                                                                                                                                                                                                                                                                     |                                                |
| Y                                                                                                                                                                                                                                                      | US 2015/208722 A1 (KADIRIC ALEN [CH])<br>30 July 2015 (2015-07-30)<br>* paragraph [0019] *<br>-----                  | 12                                                                                                                                                                                                                                                                                    |                                                |
| The present search report has been drawn up for all claims                                                                                                                                                                                             |                                                                                                                      |                                                                                                                                                                                                                                                                                       |                                                |
| Place of search<br><b>Munich</b>                                                                                                                                                                                                                       |                                                                                                                      | Date of completion of the search<br><b>28 January 2025</b>                                                                                                                                                                                                                            | Examiner<br><b>Cardan, Cosmin</b>              |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |                                                                                                                      | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |                                                |

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

EP 24 21 5502

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.

28-01-2025

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
| WO 2017207442 A1                          | 07-12-2017          | CN 109068753 A             | 21-12-2018          |
|                                           |                     | EP 3462942 A1              | 10-04-2019          |
|                                           |                     | JP 7066633 B2              | 13-05-2022          |
|                                           |                     | JP 2019520051 A            | 18-07-2019          |
|                                           |                     | KR 20190012150 A           | 08-02-2019          |
|                                           |                     | RU 2018144294 A            | 09-07-2020          |
|                                           |                     | US 2020316325 A1           | 08-10-2020          |
|                                           |                     | WO 2017207442 A1           | 07-12-2017          |
| -----                                     |                     |                            |                     |
| JP 6227554 B2                             | 08-11-2017          | AU 2012360831 A1           | 21-08-2014          |
|                                           |                     | BR 112014012956 A2         | 13-06-2017          |
|                                           |                     | CA 2858480 A1              | 04-07-2013          |
|                                           |                     | CN 103987286 A             | 13-08-2014          |
|                                           |                     | EP 2797449 A1              | 05-11-2014          |
|                                           |                     | EP 3597058 A1              | 22-01-2020          |
|                                           |                     | ES 2744854 T3              | 26-02-2020          |
|                                           |                     | HK 1198240 A1              | 20-03-2015          |
|                                           |                     | HU E045107 T2              | 30-12-2019          |
|                                           |                     | JP 6227554 B2              | 08-11-2017          |
|                                           |                     | JP 2015503336 A            | 02-02-2015          |
|                                           |                     | KR 20140118983 A           | 08-10-2014          |
|                                           |                     | MX 369865 B                | 25-11-2019          |
|                                           |                     | MY 170381 A                | 27-07-2019          |
|                                           |                     | NZ 624131 A                | 27-05-2016          |
|                                           |                     | PL 2797449 T3              | 28-02-2020          |
|                                           |                     | RU 2014131469 A            | 20-02-2016          |
|                                           |                     | SG 11201403666X A          | 30-07-2014          |
|                                           |                     | UA 112456 C2               | 12-09-2016          |
|                                           |                     | UA 118011 C2               | 12-11-2018          |
| US 2017119049 A1                          | 04-05-2017          | US 2014373856 A1           | 25-12-2014          |
|                                           |                     | WO 2013098409 A1           | 04-07-2013          |
|                                           |                     | -----                      |                     |
|                                           |                     | AR 106455 A1               | 17-01-2018          |
|                                           |                     | AR 120691 A2               | 09-03-2022          |
|                                           |                     | AU 2016344643 A1           | 10-05-2018          |
|                                           |                     | BR 112018008701 A2         | 30-10-2018          |
|                                           |                     | CA 3003520 A1              | 04-05-2017          |
|                                           |                     | CA 3175756 A1              | 04-05-2017          |
|                                           |                     | CL 2018001128 A1           | 12-10-2018          |
|                                           |                     | CN 108430239 A             | 21-08-2018          |
|                                           |                     | CN 116268619 A             | 23-06-2023          |
|                                           |                     | EP 3367823 A2              | 05-09-2018          |
|                                           |                     | EP 3799727 A2              | 07-04-2021          |
|                                           |                     | EP 3900551 A1              | 27-10-2021          |
|                                           |                     | HK 1256398 A1              | 20-09-2019          |
|                                           |                     | JP 7103583 B2              | 20-07-2022          |

EPO FORM P0459

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

EP 24 21 5502

28-01-2025

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<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
|                                           |                     | JP 7268933 B2              | 08-05-2023          |
|                                           |                     | JP 7413645 B2              | 16-01-2024          |
|                                           |                     | JP 2019501634 A            | 24-01-2019          |
|                                           |                     | JP 2021007411 A            | 28-01-2021          |
|                                           |                     | JP 2021036879 A            | 11-03-2021          |
|                                           |                     | JP 2022065036 A            | 26-04-2022          |
|                                           |                     | KR 20180059921 A           | 05-06-2018          |
|                                           |                     | KR 20200043547 A           | 27-04-2020          |
|                                           |                     | KR 20210068161 A           | 08-06-2021          |
|                                           |                     | MY 190690 A                | 11-05-2022          |
|                                           |                     | NZ 741769 A                | 26-07-2019          |
|                                           |                     | PH 12018500835 A1          | 29-10-2018          |
|                                           |                     | RU 2682766 C1              | 21-03-2019          |
|                                           |                     | RU 2019107029 A            | 23-04-2019          |
|                                           |                     | RU 2020135808 A            | 11-01-2021          |
|                                           |                     | TW 201720316 A             | 16-06-2017          |
|                                           |                     | US 2017119049 A1           | 04-05-2017          |
|                                           |                     | US 2019082738 A1           | 21-03-2019          |
|                                           |                     | US 2020288774 A1           | 17-09-2020          |
|                                           |                     | WO 2017072147 A2           | 04-05-2017          |
| -----                                     |                     |                            |                     |
| WO 2017145095 A1                          | 31-08-2017          | AU 2017223265 A1           | 11-10-2018          |
|                                           |                     | BR 112018017245 A2         | 15-01-2019          |
|                                           |                     | CA 3015463 A1              | 31-08-2017          |
|                                           |                     | CN 108882747 A             | 23-11-2018          |
|                                           |                     | CN 117179371 A             | 08-12-2023          |
|                                           |                     | EP 3419444 A1              | 02-01-2019          |
|                                           |                     | HK 1257957 A1              | 01-11-2019          |
|                                           |                     | JP 7106454 B2              | 26-07-2022          |
|                                           |                     | JP 2019509730 A            | 11-04-2019          |
|                                           |                     | KR 20180122365 A           | 12-11-2018          |
|                                           |                     | MY 189648 A                | 23-02-2022          |
|                                           |                     | PL 3419444 T3              | 28-10-2024          |
|                                           |                     | RU 2018133308 A            | 24-03-2020          |
|                                           |                     | UA 124803 C2               | 24-11-2021          |
|                                           |                     | US 2017238607 A1           | 24-08-2017          |
|                                           |                     | WO 2017145095 A1           | 31-08-2017          |
| -----                                     |                     |                            |                     |
| US 2015209530 A1                          | 30-07-2015          | NONE                       |                     |
| -----                                     |                     |                            |                     |
| US 2015208722 A1                          | 30-07-2015          | AR 092056 A1               | 18-03-2015          |
|                                           |                     | AU 2013301770 A1           | 12-03-2015          |
|                                           |                     | BR 112015002141 A2         | 04-07-2017          |
|                                           |                     | CN 104540402 A             | 22-04-2015          |
|                                           |                     | EP 2879529 A1              | 10-06-2015          |
|                                           |                     | EP 3698654 A1              | 26-08-2020          |

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 21 5502

5 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.

28-01-2025

| 10 | Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|----|-------------------------------------------|---------------------|----------------------------|---------------------|
|    |                                           |                     | EP 3788890 A1              | 10-03-2021          |
|    |                                           |                     | EP 4233572 A2              | 30-08-2023          |
| 15 |                                           |                     | ES 2912178 T3              | 24-05-2022          |
|    |                                           |                     | ES 2952053 T3              | 26-10-2023          |
|    |                                           |                     | ES 2974940 T3              | 02-07-2024          |
|    |                                           |                     | HK 1210917 A1              | 13-05-2016          |
|    |                                           |                     | HU E062462 T2              | 28-11-2023          |
|    |                                           |                     | HU E066225 T2              | 28-07-2024          |
| 20 |                                           |                     | JP 6408987 B2              | 17-10-2018          |
|    |                                           |                     | JP 7068418 B2              | 16-05-2022          |
|    |                                           |                     | JP 7071567 B2              | 19-05-2022          |
|    |                                           |                     | JP 7354323 B2              | 02-10-2023          |
|    |                                           |                     | JP 2015524274 A            | 24-08-2015          |
| 25 |                                           |                     | JP 2018139619 A            | 13-09-2018          |
|    |                                           |                     | JP 2021013386 A            | 12-02-2021          |
|    |                                           |                     | JP 2021100424 A            | 08-07-2021          |
|    |                                           |                     | JP 2022066270 A            | 28-04-2022          |
|    |                                           |                     | JP 2023165802 A            | 17-11-2023          |
| 30 |                                           |                     | KR 20150040811 A           | 15-04-2015          |
|    |                                           |                     | KR 20210049966 A           | 06-05-2021          |
|    |                                           |                     | KR 20220060558 A           | 11-05-2022          |
|    |                                           |                     | KR 20240005972 A           | 12-01-2024          |
|    |                                           |                     | MY 169063 A                | 12-02-2019          |
|    |                                           |                     | PH 12014502837 A1          | 09-02-2015          |
| 35 |                                           |                     | PL 2879529 T3              | 27-06-2022          |
|    |                                           |                     | PL 3698654 T3              | 17-06-2024          |
|    |                                           |                     | PL 3788890 T3              | 09-10-2023          |
|    |                                           |                     | RU 2015107844 A            | 27-09-2016          |
|    |                                           |                     | RU 2017125239 A            | 30-01-2019          |
| 40 |                                           |                     | SG 11201500860V A          | 30-03-2015          |
|    |                                           |                     | TW 201412254 A             | 01-04-2014          |
|    |                                           |                     | UA 116990 C2               | 11-06-2018          |
|    |                                           |                     | US 2015208722 A1           | 30-07-2015          |
|    |                                           |                     | US 2019335805 A1           | 07-11-2019          |
| 45 |                                           |                     | WO 2014023557 A1           | 13-02-2014          |
|    |                                           |                     | -----                      |                     |
| 50 |                                           |                     |                            |                     |
| 55 |                                           |                     |                            |                     |

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