



# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 18 88 59 16

**Classification of the application (IPC):**  
A46D 1/00, A46B 9/02, D02G 3/22, D01F 6/92, D01D 5/253

**Technical fields searched (IPC):**  
A46B, A46D, D02G

| DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                          |                   |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|
| Category                            | Citation of document with indication, where appropriate, of relevant passages                            | Relevant to claim |
| X                                   | US 6280113 B1 (GUERET JEAN-LOUIS H [FR])                                                                 | 6, 7              |
| Y                                   | 28 August 2001 (2001-08-28)<br>* line 40 - column 10, line 46; claims 1,50; figure 24 *                  | 1-5               |
| Y                                   | JP 2009066098 A (TORAY MONOFILAMENT CO)<br>02 April 2009 (2009-04-02)<br>* paragraph [0021]; figure 1 *  | 1-5               |
| A                                   | JP 2017000369 A (MITSUBISHI PENCIL CO)<br>05 January 2017 (2017-01-05)<br>* paragraph [0027]; figure 6 * | 1-7               |

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

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|------------------------------|--------------------------------------------------|------------------------|
| Place of search<br>The Hague | Date of completion of the search<br>30 June 2021 | Examiner<br>Kun, Karla |
|------------------------------|--------------------------------------------------|------------------------|

## CATEGORY OF CITED DOCUMENTS

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|---------------------------------------------------------------------------------|------------------------------------------------------------------------|
| X: particularly relevant if taken alone                                         | P: intermediate document                                               |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background                                                     | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure                                                       | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

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# ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
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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 30-06-2021.  
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| Patent document cited<br>in search report |              | Publication<br>date | Patent family<br>member(s) |              | Publication<br>date |
|-------------------------------------------|--------------|---------------------|----------------------------|--------------|---------------------|
| US 6280113                                | B1           | 28-08-2001          | AR                         | 024895 A1    | 30-10-2002          |
|                                           |              |                     | AT                         | 254864 T     | 15-12-2003          |
|                                           |              |                     | BR                         | 0003441 A    | 13-03-2001          |
|                                           |              |                     | CA                         | 2314435 A1   | 22-01-2001          |
|                                           |              |                     | CN                         | 1290504 A    | 11-04-2001          |
|                                           |              |                     | DE                         | 60006745 T2  | 30-09-2004          |
|                                           |              |                     | EP                         | 1070462 A1   | 24-01-2001          |
|                                           |              |                     | ES                         | 2211472 T3   | 16-07-2004          |
|                                           |              |                     | FR                         | 2796531 A1   | 26-01-2001          |
|                                           |              |                     | JP                         | 3482383 B2   | 22-12-2003          |
|                                           |              |                     | JP                         | 2001061544 A | 13-03-2001          |
|                                           |              |                     | MX                         | PA00007038 A | 04-06-2002          |
|                                           |              |                     | US                         | 6280113 B1   | 28-08-2001          |
|                                           |              |                     | JP 2009066098              | A            | 02-04-2009          |
| JP                                        | 2009066098 A | 02-04-2009          |                            |              |                     |
| JP 2017000369                             | A            | 05-01-2017          | NONE                       |              |                     |