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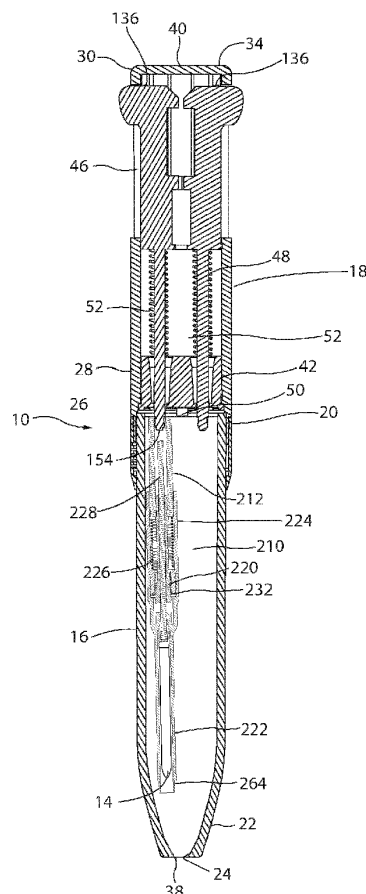
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(54) **ONE-HAND OPERATED MULTI-PENCIL**

(57) A four color multi-pencil capable of one-handed operation is presented. Each color is contained in a cartridge assembly and each cartridge assembly may be individually selected for use and the material within the cartridge advanced for dispensing by means of a single pressing motion. The multi-pencil is designed to be a "snap together" assembly. No fasteners or adhesives are required. The multi-pencil contains a main body and a barrel. Housed within the barrel are a plurality of cartridge assemblies. Housed within the main body are a plurality of slide members for actuating the cartridges. Each cartridge assembly contains a mechanism for advancing drawing material or material to be dispensed.



**Fig. 1**

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## EUROPEAN SEARCH REPORT

Application Number  
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## 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   | US 2017/151826 A1 (TANI YOSHIKAZU [JP])<br>1 June 2017 (2017-06-01)<br>* column 2, paragraph 27 - column 4,<br>paragraph 53; figures 1-12 *<br>----- | 6-14   | INV.<br>B43K24/18<br>B43K21/027<br>B43K27/04 |
|   |  |  | TECHNICAL FIELDS SEARCHED (IPC)              |
|   |  |  | B43K   |
| 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>18 January 2021</b> | Examiner<br><b>Kelliher, Cormac</b>          |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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/>&amp; : member of the same patent family, corresponding document</p> |  |  |  |

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

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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  
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18-01-2021

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| US 2017151826 A1                          | 01-06-2017          | CN 107048673 A             | 18-08-2017          |
|   |                     | CN 108095289 A             | 01-06-2018          |
|   |                     | FR 3044260 A1              | 02-06-2017          |
|   |                     | FR 3062597 A1              | 10-08-2018          |
|   |                     | JP 6188251 B2              | 30-08-2017          |
|   |                     | JP 2017099487 A            | 08-06-2017          |
|   |                     | KR 20170063382 A           | 08-06-2017          |
|   |                     | KR 20180011296 A           | 31-01-2018          |
|   |                     | US 2017151826 A1           | 01-06-2017          |
|   |                     | US 2018154681 A1           | 07-06-2018          |
| -----                                     |                     |                            |                     |