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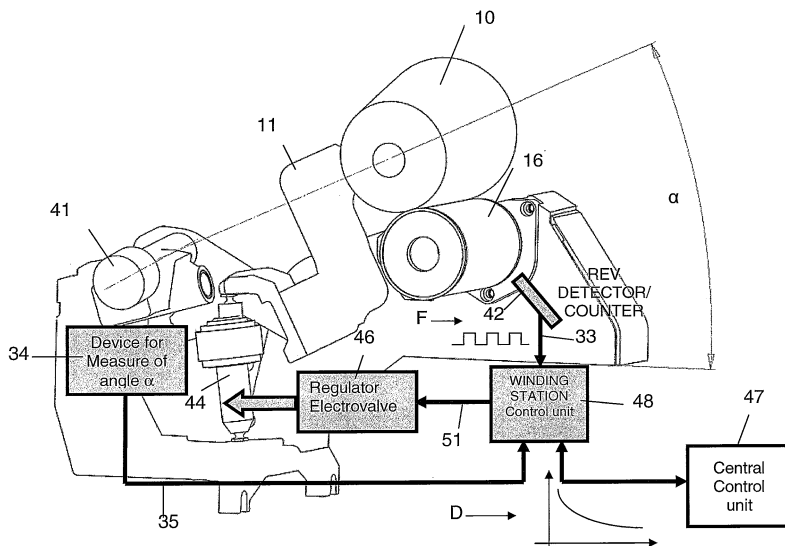
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(54) **Device and procedure for the regulation of the contact pressure of a winding bobbin**

(57) Device and process for the regulation of thread winding onto a bobbin (10) by applying a desired contact pressure  $P_c$  of the operating bobbin, providing the bobbin-holder arm (11) with a counterweighing counterthrust  $P_p$ , on the basis of a pre-established trend of the value of  $P_c$  in relation to the advance length of the bobbin (10), indicating the weight of the bobbin (10) in relation to the

ratio between the length reached and indicating the rising  $\alpha$  angle of the bobbin-holder arm (11), calculating the weight component due to the bobbin (10) and said arm (11) and applying a counterthrust  $P_p$  equal to the difference between said component and the pre-established value of the contact pressure  $P_c$  referred to the length reached.

**Fig. 2**





## EUROPEAN SEARCH REPORT

Application Number  
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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |                                                 |                                         |
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| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Citation of document with indication, where appropriate, of relevant passages                                             | Relevant to claim                               | CLASSIFICATION OF THE APPLICATION (IPC) |
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| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | * column 2, lines 3-62 *                                                                                                  | 3                                               |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | * column 3, lines 1-4 *                                                                                                   |                                                 |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | * column 3, line 66 - column 4, line 9 *                                                                                  |                                                 |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | * column 4, lines 37-51; figures *                                                                                        | 3                                               |                                         |
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| Place of search<br>The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                           | Date of completion of the search<br>18 May 2009 | Examiner<br>Lemmen, René                |
| <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/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                           |                                                 |                                         |

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EPO FORM 1503 03.82 (P04C01)

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

EP 07 10 2088

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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