

**EUROPEAN PATENT APPLICATION**

Application number: 82107022.4

Int. Cl.<sup>3</sup>: **B 65 H 67/04**

Date of filing: 04.08.82

Priority: 03.09.81 GB 8126692  
 17.09.81 GB 8128122  
 10.11.81 GB 8133836

Date of publication of application:  
 16.03.83 Bulletin 83/11

Date of deferred publication of search report: 07.03.84

Designated Contracting States:  
 CH DE FR GB IT LI NL

Applicant: MASCHINENFABRIK RIETER A.G.  
 Postfach 290  
 CH-8406 Winterthur(CH)

Inventor: Mueller, Kurt  
 Hofwiesenstrasse 47  
 CH-8057 Zürich(CH)

Inventor: Vetterli, Walter  
 Bettenstrasse 187  
 CH-8400 Winterthur(CH)

Inventor: Feusi, Markus  
 Strittackerstrasse 4  
 CH-8400 Winterthur(CH)

Inventor: Huber, Josef  
 Wellenbergstrasse 2  
 CH-8422 Pfungen(CH)

Inventor: Oswald, Heinz  
 Laboratoriumstrasse 10  
 CH-8400 Winterthur(CH)

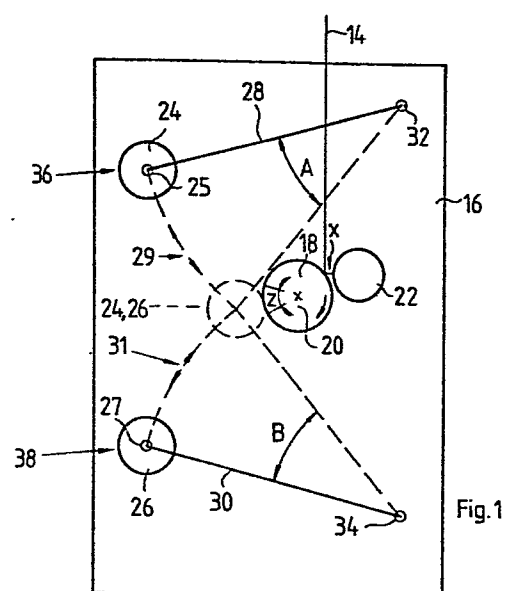
Inventor: Pfyffer, Peter  
 Aehrenweg 12  
 CH-8400 Winterthur(CH)

Inventor: Schefer, Kurt  
 Gutstrasse 7  
 CH-8400 Winterthur(CH)

Inventor: Salvisberg, Kurt  
 Isengarten 205  
 CH-8214 Gächlingen(CH)

**Filament winding machine.**

A filament winder of the automatic exchange type in which chucks (24,26) are brought successively into winding positions relative to a friction drive roller (20) and thread is transferred from a package on an outgoing chuck to a bobbin on an incoming chuck. Each chuck moves (24,26) along its own predetermined path (29,31) towards and away from the friction drive roller (20). A free thread length is created between the friction drive roller and the outgoing chuck and this free thread length is intercepted by thread catching means on the incoming chuck





European Patent  
Office

## EUROPEAN SEARCH REPORT

0073930

Application number

EP 82 10 7022

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                     |                                                                               |                                                                                                                                                                                                                                                                              |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Category                                                                                                                                                                                                                | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim                                                                                                                                                                                                                                                            | CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> ) |
| X                                                                                                                                                                                                                       | DE-A-2 827 178 (INDUSTRIE-WERKE KARLSRUHE AUGSBURG)<br>* Complete document *  | 1, 10                                                                                                                                                                                                                                                                        | B 65 H 67/04                                               |
| A                                                                                                                                                                                                                       |                                                                               | 3-5, 7,<br>8, 11,<br>12                                                                                                                                                                                                                                                      |                                                            |
| X                                                                                                                                                                                                                       | ---<br>US-A-4 166 587 (H.B. MILLER)<br>* Complete document *                  | 1, 10                                                                                                                                                                                                                                                                        |                                                            |
| A                                                                                                                                                                                                                       |                                                                               | 4, 5, 11                                                                                                                                                                                                                                                                     |                                                            |
| A                                                                                                                                                                                                                       | ---<br>US-A-3 310 247 (M.B. EMERY)<br>* Claim 1; figures 1-8 *                | 1, 2, 7,<br>10                                                                                                                                                                                                                                                               |                                                            |
| A                                                                                                                                                                                                                       | ---<br>DE-B-2 065 653 (MASCHINENFABRIK RIETER)<br>* Claim 1; figures 1-4 *    | 1, 2, 24                                                                                                                                                                                                                                                                     | B 65 H 67/00                                               |
| D, A                                                                                                                                                                                                                    | ---<br>US-A-2 789 774 (S.A. PETERSEN)                                         |                                                                                                                                                                                                                                                                              |                                                            |
| D, A                                                                                                                                                                                                                    | ---<br>US-A-3 758 042 (S.B. SEAR)<br>-----                                    |                                                                                                                                                                                                                                                                              |                                                            |
| The present search report has been drawn up for all claims                                                                                                                                                              |                                                                               |                                                                                                                                                                                                                                                                              |                                                            |
| Place of search<br>BERLIN                                                                                                                                                                                               |                                                                               | Date of completion of the search<br>09-11-1983                                                                                                                                                                                                                               | Examiner<br>LEMBLE Y.A.F.M.                                |
| <b>CATEGORY OF CITED DOCUMENTS</b>                                                                                                                                                                                      |                                                                               |                                                                                                                                                                                                                                                                              |                                                            |
| 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>& : member of the same patent family, corresponding document |                                                            |