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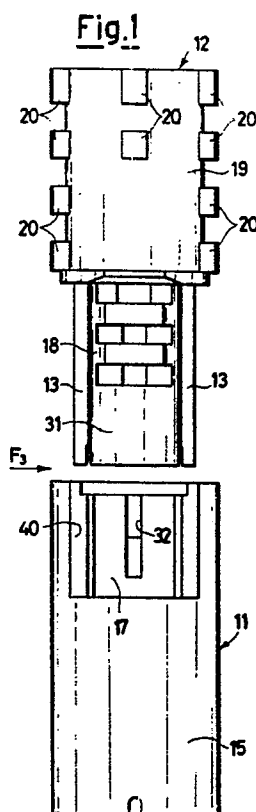
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(54) **Arc-quenching chamber for circuit breakers with a fluid arc-quenching medium, in particular for reduced oil volume or liquified gas circuit breakers.**

(57) Arc-extinguishing chamber for circuit breakers with fluid arc-extinguishing medium, constituted by two shaped elements of thermoplastic material, the one of said two elements being coaxially insertable inside the other one, the said one of said two elements being provided in an upper inner portion thereof with a seat for housing stationary electrical contact means, and in correspondence thereof, on its outside surface, with means for distributing along the cylinder the stresses due to the inner pressure generated by the electrical arc, and for the venting to the outside of the gases generated by the electrical arc, it being furthermore provided in a lower portion thereof with disc-shaped portions and with a semicylindrical wall, said disc-shaped portions being suitable to define a first zone of said arc-quenching chamber provided with vent openings, and said wall being suitable to define a second closed zone of said arc-quenching chamber when the said one of the said two elements results operatively inserted inside the other one of the said two elements.





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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 (Int. Cl.4) |
| Y                                                                                                                                                                                                                       | DE-A-2154194 (SACHSENWERK LICHT- UND KRAFT AG.)<br>* page 4, last paragraph - page 5, paragraph 1;<br>figures 1-3 *<br>--- | 1-5                                                                                                                                                                                                                                                                                   | H01H33/75                                     |
| Y                                                                                                                                                                                                                       | GB-A-1241684 (REYROLLE & CO. LTD.)<br>* claims 1, 6, 7; figure 1 *<br>---                                                  | 1-5                                                                                                                                                                                                                                                                                   |                                               |
| A                                                                                                                                                                                                                       | CH-A-293263 (MASCHINENFABRIK OERLIKON)<br>* claim 1; figure 1 *<br>---                                                     | 1                                                                                                                                                                                                                                                                                     |                                               |
| A                                                                                                                                                                                                                       | DE-B-1021918 (E. NEUMANN HOCHSPANNUNGS-APPARATE K.G.)<br>* column 5, line 5 - line 12; figure 2 *<br>---                   | 1                                                                                                                                                                                                                                                                                     |                                               |
| A                                                                                                                                                                                                                       | EP-A-0093076 (RTE CORPORATION)<br>* page 2, line 24 - page 3, line 10; figure 2 *<br>-----                                 | 1                                                                                                                                                                                                                                                                                     |                                               |
|                                                                                                                                                                                                                         |                                                                                                                            |                                                                                                                                                                                                                                                                                       | TECHNICAL FIELDS SEARCHED (Int. Cl.4)         |
|                                                                                                                                                                                                                         |                                                                                                                            |                                                                                                                                                                                                                                                                                       | H01H                                          |
| The present search report has been drawn up for all claims                                                                                                                                                              |                                                                                                                            |                                                                                                                                                                                                                                                                                       |                                               |
| Place of search<br>THE HAGUE                                                                                                                                                                                            |                                                                                                                            | Date of completion of the search<br>03 APRIL 1989                                                                                                                                                                                                                                     | Examiner<br>OVERDIJK J.                       |
| <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>.....<br>& : member of the same patent family, corresponding document |                                               |