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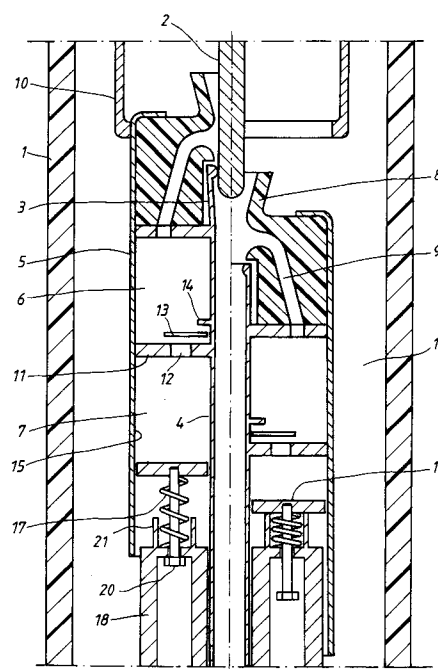
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19.11.92 Bulletin 92/47(71) Applicant: **ASEA BROWN BOVERI AB****S-721 83 Västerås(SE)**(72) Inventor: **Jacobsson, Staffan****Gamla vägen 60 C****S-770 13 Grangärde(SE)**Inventor: **Otterberg, Tomas****Barrstigen 6****S-771 00 Ludvika(SE)**Inventor: **Persson, Gunnar****Plommonstigen 21****S-771 00 Ludvika(SE)**Inventor: **Stengard, Peter****Ratallsvägen 17****S-771 00 Ludvika(SE)**(74) Representative: **Boecker, Joachim, Dr.-Ing.**
Rathenauplatz 2-8
W-6000 Frankfurt a.M. 1(DE)(54) **High-voltage circuit breaker of self-blasting type.**

(57) High-voltage circuit breaker of self-blasting type with a gas reservoir for arc extinction consisting of two parts, a pressure storage volume (6) and a puffer volume (7). The two volumes (6, 7) are separated by a wall (11) with a non-return valve (12,13,14) which is closed when the pressure in the pressure storage volume (6) is higher than in the puffer volume (7). During an opening operation, the gas in the puffer volume is compressed because the distance between the wall (11) and the puffer piston (16) then decreases. The invention improves the breaking capacity on the occurrence of a breaking operation immediately following an auto-reclosing by arranging the puffer piston (16) axially displaceable against the action of one or more springs (17). During the high-pressure phase in the first breaking operation the piston (16) is moved against the resistance of the springs 17 and, when the pressure drops towards the end of the movement, a gas puff is injected into the pressure storage volume under the force of the re-expanding springs 17. This results in a considerable reduction of the gas temperature in the pressure storage volume which in this way achieves in better condition for the next breaking

operation.

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EUROPEAN SEARCH REPORT

Application Number

EP 91 11 4964

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.5)
X	DE-A-3 141 324 (BBC) * page 9, line 8 - page 10; figures 1-5 * ---	1	H01H33/91
Y	FR-A-2 291 601 (DELLE - ALSTHOM)	1,5	
A	* page 3; figure 5 * ---	7	
Y	FR-A-1 559 522 (MAGRINI FABBRICHE RIUNITE) * figures 1,2 * ---	1-3	
Y	FR-A-2 210 814 (FUJI ELECTRIC CO.) * page 4; figure 3 * ---	1-3,5	
A	FR-A-2 408 906 (MERLIN GERIN) * page 5, paragraph 2-3; figure 3 * -----	4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H01H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 SEPTEMBER 1992	Examiner JANSSENS DE VROOM P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			