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High-voltage circuit breaker.

High-voltage circuit breaker of the self-blasting and/or puffer type, where the movable arcing contact (3) of the circuit breaker, at least during a considerable part of a breaking operation, is operated at a higher speed than the movable operating current contact (10), which is built together with the pressure storage chamber (7) and auxiliary puffer cylinder (14) of the breaker. A blast nozzle (5) arranged coaxially around the arcing contacts (2, 3) is supported by one of the movable contacts (3, 10). By means of a special link mechanism (31, 32), a speed ratio between the two contact systems may be obtained which is changed in an optimal manner with respect to dielectric strength and energy requirement during an opening operation. The communication between the arcing zone and the pressure storage chamber (7) takes place through a channel (6) arranged in the blast nozzle (5), the inlet position of the channel in the pressure storage chamber being displaceable during an opening operation. In this way, a gas mixing which is more favourable for the arc extinction is obtained in the pressure storage chamber (7).



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EUROPEAN SEARCH REPORT

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EP 91 11 8583

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)
A	CH-A-527 493 (BBC) * column 2, line 7 - column 4, line 36; figures *	1	H01H33/91
A	EP-A-0 194 489 (BBC) * abstract; figure 1 *	1	
A	US-A-3 674 956 (ALLIS-CHALMERS) * figures *	1	
A	CH-A-555 589 (SPRECHER & SCHUH) * column 5, line 24 - column 6, line 36 *	1	
A	FR-A-2 297 487 (DELLE - ALSTHOM) * claim 1 *	1	
----- The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5) H01H
Place of search THE HAGUE		Date of completion of the search 21 JANUARY 1993	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			

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