



(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
14.05.2003 Bulletin 2003/20

(51) Int Cl.7: H01H 33/59

(43) Date of publication A2:
23.05.2001 Bulletin 2001/21

(21) Application number: 00123740.3

(22) Date of filing: 31.10.2000

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: 17.11.1999 JP 32643999

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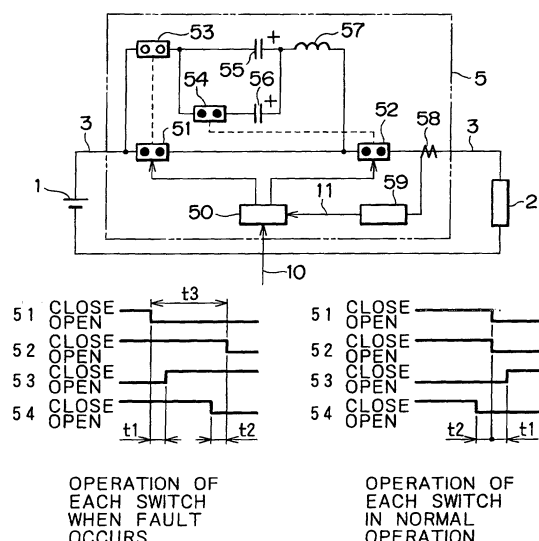
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(54) Commutation type direct-current breaker

(57) A commutation type direct-current breaker (5) according to the present invention comprises a first main switch (51) and a second main switch (52) inserted in series into a direct-current circuit that connects a direct-current power supply (1) with a load (2); a commutating circuit connected in parallel with the first main switch (51) which includes a first auxiliary switch (53) operating in interlocked relation with the first main switch (51), a second auxiliary switch (54) operating in interlocked relation with the second main switch (52), a first capacitor (55), a second capacitor (56), and a reactor (57); a control unit (50) for controlling opening and closing operations of the two main switches (51,52); and an overcurrent tripping device (59). According to the above configuration, it is possible to prevent hazards caused by capacitor charging voltage by disconnecting the circuit on the load side from two capacitors having different capacitance values when the breaker is opened. Also, it is possible to reduce the number of systems to be supplied with an instruction for switch opening or closing to two.

FIG. 1





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EUROPEAN SEARCH REPORT

Application Number
EP 00 12 3740

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01H
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 20 March 2003	Examiner Pirvulescu, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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