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- Guida, Cesare
20122 Milano (IT)
- Abisso, Alberto
73100 Lecce (IT)
- Jacovino, Elio
20052 Monza (IT)

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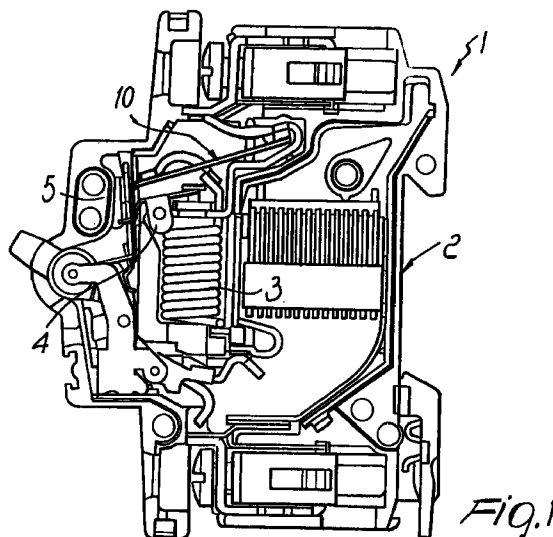
(71) Applicant: **ABB Research Ltd.**
8050 Zürich (CH)

(74) Representative:
Giavarini, Francesco
ABB Ricerca S.p.A.
Viale Edison, 50
20099 Sesto San Giovanni (MI) (IT)

(72) Inventors:
• Volponi, Silvia
20033 Desio (MI) (IT)

(54) **Magnetothermal low voltage circuit breaker with sensitive element made from shape-memory material**

(57) The present invention relates to a magnetothermal low voltage circuit breaker with sensitive element made from shape-memory material which comprises a coil traversed by current and operationally interconnected with a magnetic trip device for instantaneously breaking the flow of current for short-circuit and a thermal trip device for breaking the flow of current for overload. The aforesaid thermal trip device consists of an element made from a shape-memory material. The novel feature of the invention consists in the fact that the aforesaid shape-memory material exhibits a temperature of transition between the martensite phase and the austenite phase of greater than 90°C and a thermal shock resistance temperature of greater than 600°C.



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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.6)
A	US 5 061 914 A (BUSCH JOHN D ET AL) 29 October 1991 * column 7, line 18 - line 25 * * column 9, line 28 - line 34 * ---	1	H01H71/14
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 January 1999	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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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