



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

Publication number:

**0 158 520**  
**A3**

## EUROPEAN PATENT APPLICATION

Application number: **85302397.6**

Int. Cl.<sup>4</sup>: **H 01 H 33/56**

Date of filing: **04.04.85**

Priority: **09.04.84 US 598558**

Date of publication of application: **16.10.85**  
**Bulletin 85/42**

Designated Contracting States: **AT BE CH DE FR GB IT LI NL SE**

Date of deferred publication of search report: **12.11.86 Bulletin 86/46**

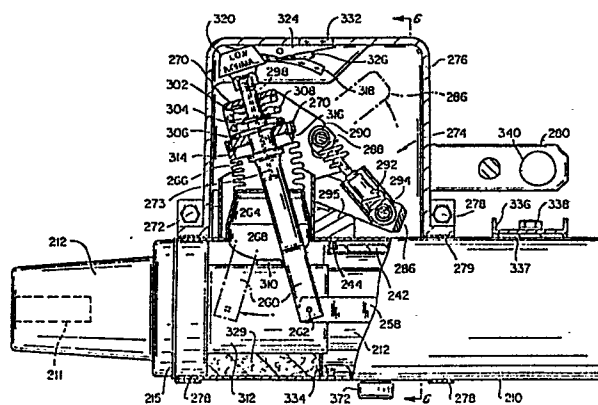
Applicant: **RAYCHEM CORPORATION, 300 Constitution Drive, Menlo Park California 94025 (US)**

Inventor: **Barkan, Philip, 12 Pearce Mitchell Place, Stanford California 94305 (US)**  
Inventor: **Gere, David Stanton, 932 Valdez Place, Stanford California 94305 (US)**

Representative: **Benson, John Everett et al, Raychem Limited Intellectual Property Law Department Swan House 37-39, High Holborn, London WC1 (GB)**

### Load break switch with safety mechanism.

A single-phase ground enclosed load break switch for distribution voltages has a hermetically sealed cylindrical metal housing (210) of from 2 to 6 inches diameter which contains an insulating gas under pressure. The switch has a movable contact assembly to contact a pair of opposed stationary coaxial conductors with the housing. A rocking bellows (266) at the fulcrum of a crank actuator (264) provides a compact hermetic seal for the actuator without excessive strain of the bellows. A safety interlock (302, 310, 260) with a visual indicator (318, 320) locks the contact assembly in case of a loss of pressure. Excessive pressure in the switch causes the bellows (266) to be punctured with consequent locking of the contact assembly. The switch is small enough to be mounted directly on a transformer or placed into a cable, without the need for a separate enclosure.



EP 0 158 520 A3



European Patent  
Office

# EUROPEAN SEARCH REPORT

0158520

Application number

EP 85 30 2397

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)
X	GB-A- 967 521 (WESTINGHOUSE) * Page 1, line 12 - page 4, line 20; figures 1-4 *	1-3	H 01 H 33/56
Y	---	8	
Y	GB-A-1 026 435 (S & C ELECTRIC CO.) * Page 1, lines 26-49; page 2, line 112 - page 5, line 3; figures 1-8 *	8	
X	---	10	
X	US-A-3 077 527 (GOLDBACH) * Column 4, line 58 - column 5, line 59; column 6, lines 15-54; figures 1-5 *	6, 8, 10	<div>TECHNICAL FIELDS SEARCHED (Int. Cl. 4)</div> <div>H 01 H 33/00</div> <div>H 02 B 13/00</div>
A	CH-A- 372 722 (CONTINENTAL) * Page 1, lines 9-42; figures 1-3 *	1	
A	GB-A- 841 341 (AKAMANNA) * Page 1, lines 9-44; figures 1-3 *	1	
-----			
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25-08-1986	Examiner RUDOLPH
<div>CATEGORY OF CITED DOCUMENTS</div> <div> <div>X particularly relevant if taken alone</div> <div>Y particularly relevant if combined with another document of the same category</div> <div>A technological background</div> <div>O non-written disclosure</div> <div>P intermediate document</div> <div>T : theory or principle underlying the invention</div> <div>E : earlier patent document, but published on, or after the filing date</div> <div>D : document cited in the application</div> <div>L : document cited for other reasons</div> <div>&amp; : member of the same patent family, corresponding document</div> </div>			