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54 Vacuum circuit interrupter with on-line monitoring apparatus.

57 A vacuum circuit interrupter has vapor deposition shields electrically interconnected with the voltage source (70, 74) which is controlled by the circuit interrupter to produce a cold cathode ion detector for determining the quality or amount of vacuum within the vacuum circuit interrupter. The central shield support ring (56) protrudes through an insulating casing to supply ion current to a current detecting bridge (64) through a circumferentially insulated surge resistor (40) and from there to the common terminal.

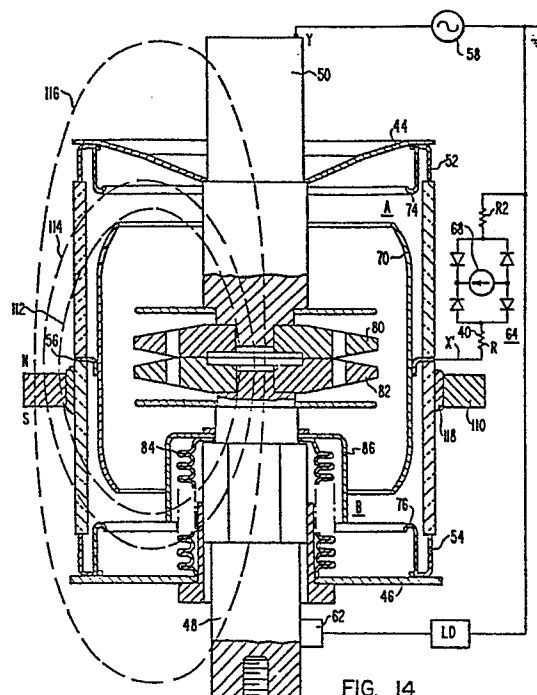


FIG. 14



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Office

EUROPEAN SEARCH REPORT

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EP 82 30 0257

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. ³)
Y	DE-A-2 743 755 (HOWE-YIN) *Page 9, paragraphs 2 and 3; page 11, paragraphs 2 and 3; page 12, paragraph 1* & USA 4103291	1,11	H 01 H 33/66
D,Y	--- US-A-3 575 656 (I.T.E.) *Column 4, lines 1 to 73*	1-6,8, 9,11, 12	
D,A	--- US-A-3 263 162	1	
A	--- FR-A-1 513 019 & USA 3403297 (Cat. D)	1	
A	--- US-A-2 864 998 -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			H 01 H 33/66 G 01 R 31/32 G 01 L 21/34
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27-04-1982	Examiner LIBBERECHT L.A.,
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	