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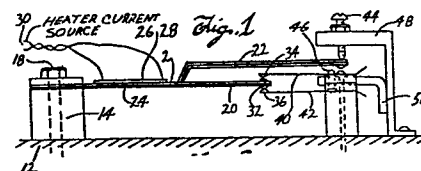
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54 **Thermal switch and control circuit for diesel engine glow plug control.**

57 A thermally operated bimetal switch has a cantilever supported bimetal element with three sections, a heater controlled section adjacent the cantilever support, a switch arm section (20) and a compensator arm section (22) extending parallel to each other away from the heater section (24). The compensator arm section (22) engages a stop. The switch can be adjusted to provide undercompensation, overcompensation or full compensation for ambient temperature changes over controlled temperature ranges. A control circuit utilizing a thermal switch is described by which glow plugs are heated at a high rate but are temperature limited to prevent burnout of the glow plugs.





European Patent
Office

EUROPEAN SEARCH REPORT

0043577

Application number

EP 81 10 5241.4

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
Y	DE - A - 1 615 670 (ASSOCIATED ELECTRICAL INDUSTRIES LTD.) * claim 1; page 2, line 5 to page 4, line 5; fig. * --	1,2	H 01 H 37/10 //F 02 P 19/02
Y	US - A - 3 988 708 (J.B. THORSTEINSSON et al.) * column 2, lines 36 to 59; column 6, line 56 to column 8, line 26; fig. 7, 8, 8a * --	1,2	
A	DE - B - 1 015 095 (MICRO BALANCING, INC.) * column 1, lines 1 to 30; fig. 2 to 4 * --		TECHNICAL FIELDS SEARCHED (Int.Cl. ³) F 02 P 19/02 H 01 H 37/10 H 01 H 61/02
A	US - A - 3 842 382 (L.E. BELL) * fig. 3 * ----		
			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
X The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search		Date of completion of the search	Examiner
Berlin		19-05-1982	LEMMERICH