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(54) High efficiency alternating endothermic engine with a new thermodynamic cycle.

(57) Alternating endothermic engine with a thermodynamic cycle in which the combustion chamber volume is kept constant for the period required for complete combustion of the operating fluid. In this way, higher maximum pressure is achieved for a pre-established and calculable period so as to obtain a more elevated tangential component and thus a higher engine torque for the same heat absorption and fuel consumption. At the same time dangerous emissions are sharply reduced, while internal cooling is effected with reduced heat loss and energy savings.

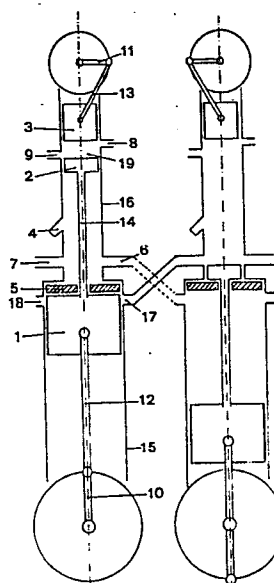


FIG. 1



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# EUROPEAN SEARCH REPORT

0048784

Application number

EP 80 83 0103.0

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	
X,Y	<p>US - A - 3 312 206 (D. RADOVIC)</p> <p>* claim; column 1, line 17 to column 2, line 17; fig. 1 to 4 *</p> <p>--</p>	1-3,6	F 02 B 75/02
Y	<p>DE - U - 7 609 041 (K. SALOMON)</p> <p>* description; sole page; fig. *</p> <p>--</p>	3	
X	<p>GB - A - 1 516 982 (R.T. JONES)</p> <p>* claim 1, 2; page 1, lines 9 to 42; fig. 1, 6, 9 *</p>	1,2	TECHNICAL FIELDS SEARCHED (Int.Cl. 3)
Y	<p>* page 2, line 10 to page 3, line 82; page 3, line 128 to page 4, line 8; page 4, lines 24 to 75 *</p> <p>--</p>	4	<p>F 02 B 33/14</p> <p>F 02 B 47/02</p> <p>F 02 B 41/00</p> <p>F 02 B 75/00</p> <p>F 02 D 15/04</p>
X	<p>US - A - 4 169 435 (E.L. FAULCONER)</p> <p>* claim 3; abstract; column 1, line 67 to column 2, line 19; fig. 1 to 9 *</p> <p>--</p>	1	
Y	<p>US - A - 2 139 457 (G.W. PATCHETT)</p> <p>* page 1, left-hand column, lines 1 to 21, right-hand column, lines 29 to 35; fig. 1 *</p> <p>--</p>	4	CATEGORY OF CITED DOCUMENTS
Y	<p>DE - A1 - 2 823 448 (DANA CORP.)</p> <p>* claim 1; page 7, line 6 to page 9, line 2; fig. 1 to 4 *</p> <p>--</p> <p>./..</p>	4	<p>X: particularly relevant if taken alone</p> <p>Y: particularly relevant if combined with another document of the same category</p> <p>A: technological background</p> <p>O: non-written disclosure</p> <p>P: intermediate document</p> <p>T: theory or principle underlying the invention</p> <p>E: earlier patent document, but published on or after the filing date</p> <p>D: document cited in the application</p> <p>L: document cited for other reasons</p>
<p><input checked="" type="checkbox"/> The present search report has been drawn up for all claims</p>			<p>&amp;. member of the same patent family, corresponding document</p>
Place of search		Date of completion of the search	Examiner
Berlin		28-06-1982	CANNICI



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<u>FR - A - 891 112</u> (SULZER FRERES S.A.) * whole document * --	4	
A	<u>DE - C - 180 037</u> (H. PAPE et al.) * column 1, lines 1 to 16; fig. 2 * --	6	
A	<u>US - A - 4 157 080</u> (C.C. HILL) * whole document * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )