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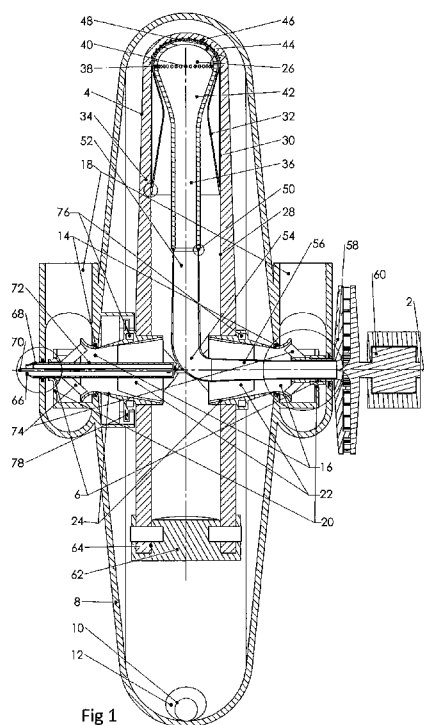
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(54) Title: A ROTOR ASSEMBLY FOR AN OPEN CYCLE ENGINE, AND AN OPEN CYCLE ENGINE



(57) Abstract: A rotor assembly for an engine, comprising: a rotor, sup-
ported on bearings for axial rotation, a rotor portion forming a compression pas-
sage extending outwards from the axis, gases entering the rotor through inlets
at the axis and flowing outwards through the compression passage; a com-
bustion chamber supported within the compression passage near the maxim-
um radius of the rotor having a closed outer end and combustion chamber
gases inlets through which gases enter the combustion chamber, each com-
bustion chamber having a fuel inlet, and; one or more expansion passages in
fluidic connection with and extending radially inwards from the combustion
chamber within a compression passage and fluidically connecting at or near
the rotor axis to a combustion gas outlet tube that extends along the rotor
axis, combustion gases created by combustion of fuel with inlet gases within
the combustion chamber expanding as they flow inwards through the expan-
sion passage.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	W0 2005/017332 A2 (RORY KEOGH [US]) 24 February 2005 (2005-02-24) paragraph [0096] figures ----- -/--	1-4,6-8, 10-12, 22-29, 31,46, 136, 170-172, 190-193, 201-203, 207,208

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 2 400 137 A2 (HAGER ERICH [AT]) 28 December 2011 (2011-12-28) paragraph [0045] figures 1-3 -----	1,53,61, 102-104, 153,154, 156,157, 181-183
A	WO 2007/129032 A1 (ACADEMY PROJECTS LTD [GB]; GILL BERNARD [GB]) 15 November 2007 (2007-11-15) figure 4 -----	1,53,102
A	KR 2004 0097968 A (KIM HONG IL) 18 November 2004 (2004-11-18) abstract; figures -----	1,28,29, 45,53, 59,61,69

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005017332	A2	24-02-2005	NONE
EP 2400137	A2	28-12-2011	AT 510057 A1 15-01-2012 EP 2400137 A2 28-12-2011
WO 2007129032	A1	15-11-2007	NONE
KR 20040097968	A	18-11-2004	NONE