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(54) Title: ROTARY ENGINE ROTOR

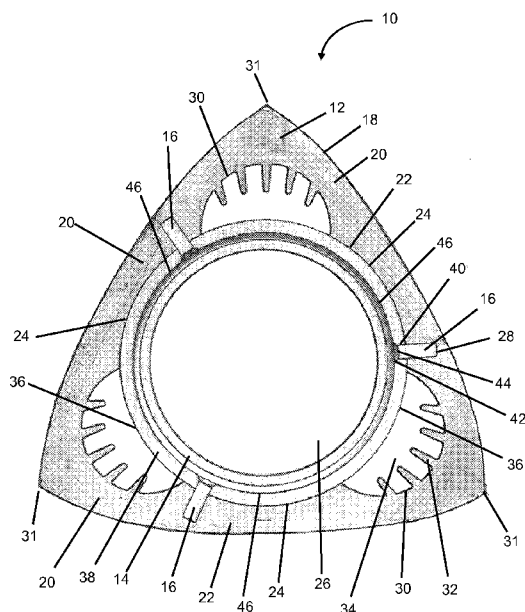


Figure 1

(57) Abstract: A rotary engine rotor (10) comprises a body (12) comprising an outer surface (18), an inner surface (22), an insert (14) and a fixing member (16). The outer surface (18) comprises three rotor sides (20) arranged in an equilateral triangle shape. The inner surface (22) comprises a location portion (24) at the midpoint of each rotor side (20), the location portions (24) together defining a location aperture (26). One location portion (24) is provided with a first fixing socket (28) extending radially from the inner surface (22) of the body (12), towards the outer surface (18) of the body (12). Cooling channels (30) are provided axially through the body (12) in the region of each apex (31). The insert (14) is provided in the location aperture (26) and comprises a bearing part (38) with a second fixing socket (40) extending radially through the insert (14) and in alignment with the first fixing socket (28). The fixing member (16) is provided through the second fixing socket (40) and received in the first fixing socket (28) to couple the insert (14) to the body (12).



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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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)
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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.
X	US 4 772 189 A (GARSIDE DAVID W [GB]) 20 September 1988 (1988-09-20)	1,4-8
Y	column 3, line 38 - column 4, line 32; figure 1	2,3
Y	----- US 4 898 522 A (EDELMAYER THOMAS C [US]) 6 February 1990 (1990-02-06) column 2, line 22 - column 3, line 18; figure 1	2,3
A	----- US 4 486 159 A (GARSIDE DAVID W [GB]) 4 December 1984 (1984-12-04) the whole document -----	1-8



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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