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(54) Title: SUPERCHARGER ASSEMBLY WITH ROTOR END FACE SEAL AND METHOD OF MANUFACTURING A SUPERCHARGER ASSEMBLY

(57) Abstract: A supercharger assembly has a rotor housing defining a chamber. A rotor is within the chamber and has an end with an end face. A seal has a seal face adjacent the end face. The seal face and the end face have complex topographies configured to be complementary to define a gap therebetween. The complex topographies can be, but are not limited to, interfitting concentric annular channels. The gap functions as a tortuous flow path to inhibit fluid flow past the end face. A method of manufacturing a supercharger assembly is also provided.
International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. F04C 18/16 F04C27/O0 F01C 19/00
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)
F04C F01C

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

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