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(54) Title: STATOR ASSEMBLY INCLUDING BLEED PORTS FOR TURBINE ENGINE COMPRESSOR, TURBINE ENGINE COMPRESSOR WITH SUCH AN ASSEMBLY, SEGMENT OF SUCH AN ASSEMBLY, AND CORRESPONDING OPERATING METHOD

(57) Abstract: A stator assembly (34) for a turbine engine (10) is disclosed. The stator assembly (34) has a stator support πng (42), a plurality of stator vanes (40) protruding radially inwardly from the stator support πng (42), and at least one bleed port (48) disposed on the stator support ring (42) in a static high pressure region (50) between at least two adjacent stator vanes (40a, 40b) of the plurality of stator vanes (40). The at least one bleed port (48) defines an oblong profile. The profile includes a first end (48a) terminating near a leading edge (52) of a first stator vane (40a) of the at least two adjacent stator vanes (40a, 40b), and a second end (48b), substantially opposed from the first end (48a), terminating near a trailing edge (54) of a second stator vane (40b) of the at least two adjacent stator vanes (40a, 40b). The profile is concave toward a suction sidewall (58) of the stator vane second (40b) of the at least two adjacent stator vanes (40a, 40b)
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

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

INV. F02C6/08 F01D9/04

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F02C FOID

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 practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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[X] See patent family annex

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