

Title (en)

ELECTRIC MEDIA GAP MACHINE FOR A COMPRESSOR AND/OR A TURBINE, TURBOCHARGER AND/OR TURBINE

Title (de)

ELEKTRISCHE MEDIENSPALTMASCHINE FÜR EINEN VERDICHTER UND/ODER EINE TURBINE, TURBOLADER UND/ODER TURBINE

Title (fr)

FENDEUSE ÉLECTRIQUE DE FLUIDES CONÇUE POUR UN COMPRESSEUR ET/OU UNE TURBINE, TURBOCOMPRESSEUR ET/OU TURBINE

Publication

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Application

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Abstract (en)

[origin: WO2018202668A1] The invention relates to an electric media gap machine (10) for a compressor and/or a turbine, in particular for a turbocharger of an internal combustion engine, comprising a shaft (5) which is rotatably mounted in a housing (6) and on which a rotor (11) is arranged in a rotationally fixed manner, a stator (12) which is fixed to the housing and which has at least one multi-phase drive coil (16) for generating a drive magnetic field and multiple stator teeth (15) that protrude radially inward, and a device (17) which is fixed to the stator for optimizing the flow of a medium flowing through the media gap machine. The device (17) has a cover cap (18) which covers at least the rotor (11) upstream thereof, wherein the cover cap (18) is adjoined by an inner sleeve (19) which surrounds the rotor (11) completely in the circumferential direction and at least partly in the axial direction. The device (17) has an outer sleeve (23) which is arranged coaxially to the inner sleeve (19) such that the only flow path for the medium between the inner sleeve (19) and the outer sleeve (23) is formed solely through the stator (12) of the media gap machine.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018202668A1

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