

Title (en)

AXIAL TURBO COMPRESSOR FOR A GAS TURBINE HAVING LOW RADIAL GAP LOSSES AND DIFFUSER LOSSES

Title (de)

AXIALTURBOVERDICHTER FÜR EINE GASTURBINE MIT GERINGEN RADIALSPALTVERLUSTEN UND DIFFUSORVERLUSTEN

Title (fr)

TURBOCOMPRESSEUR AXIAL POUR UNE TURBINE À GAZ AVEC FAIBLES PERTES PAR LES FENTES RADIALES ET LES DIFFUSEURS

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2218918A1] The compressor (1) has a stator vane grid (2) formed of stator vanes with vane tips (4) exposed on a hub side, and a stationary shaft cover (6). The cover is arranged immediately next to the tips on the hub side and delimits a flow channel of the compressor. A gap is formed between the cover and the vane tips and minimally dimensioned. Recesses (7) are formed in the cover and allocated to respective vane tips. Each recess is arranged directly neighboring the tip and dimensioned such that each tip is plunged into the recess without contacting the cover during operation of compressor.

IPC 8 full level

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CPC (source: EP US)

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