

Title (en)

COMPRESSOR ROTOR BLADE AND METHOD FOR PROFILING SAID BLADE

Title (de)

VERDICHTERLAUFSCHAUFEL, VERDICHTER UND VERFAHREN ZUM PROFILIEREN DER VERDICHTERLAUFSCHAUFEL

Title (fr)

AUBE DE ROTOR DE COMPRESSEUR ET PROCEDE DE PROFILAGE D'UNE TELLE AUBE

Publication

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Application

EP 17700921 A 20170111

Priority

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Abstract (en)

[origin: WO2017137201A1] The invention relates to compressor rotor blade for an axial-type compressor having a blade profile having a transsonic section and has a profile section (21) of the blade profile which extends in the transonic section and which has a concave suction-side region (10) and a convex suction-side region (11) on the suction side (5) of said profile section, the convex suction-side region being arranged downstream of the concave suction-side region (10), and which has a convex pressure-side region (14) and a concave pressure-side region (13) on the pressure side (4) of said profile section, the concave pressure-side region being arranged downstream of the convex pressure-side region (14), wherein a curvature progression (27) on the pressure side (4) of the profile section (21) and a curvature progression (28) on the suction side (5) of the profile section (21) are both applied in a continuous manner over a profile chord (22) of the profile section (21), the positions of the minimum values of the curvature progressions (27, 28) deviate from each other by not more than 10% of the length of the profile chord (22), and the positions of the maximum values of the curvature progressions (27, 28) deviate from each other by not more than 10% of the length of the profile chord (22).

IPC 8 full level

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