

Title (en)

COMPRESSOR BLADE WITH MODIFIED STAGGER ANGLE SPANWISE DISTRIBUTION

Title (de)

VERDICHTERSCHAUFEL MIT SPANNWEITER VERTEILUNG EINES MODIFIZIERTEN TAUMELWINKELS

Title (fr)

AUBE DE COMPRESSEUR AVEC DISTRIBUTION DANS LE SENS DE L'ENVERGURE DE L'ANGLE DE DÉCALAGE MODIFIÉ

Publication

EP 3502482 B1 20200826 (EN)

Application

EP 17209156 A 20171220

Priority

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Abstract (en)

[origin: EP3502482A1] A compressor blade (5) extending spanwise from a hub section (6) to a tip section (7) and having intermediate airfoil cross sections (S), said cross sections having a stagger angle () comprised between a chord () and a meridional axis (m), characterized in that the blade (5) has a spanwise stagger angle distribution $\gamma(s)$ defined as a function of the relative span (s) of the blade by the equation: where WSA(s) is a weighted stagger angle defined, as a function of the relative span, by a curve comprised between the following equations: and

IPC 8 full level

F04D 29/32 (2006.01); **F01D 5/14** (2006.01); **F04D 29/66** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP)

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