

Title (en)

NOISE ATTENUATION DEVICE FOR A CENTRIFUGAL COMPRESSOR DISCHARGE OR SUCTION NOZZLE

Title (de)

RAUSCHUNTERDRÜCKUNGSVORRICHTUNG ZUR ENTLADUNG EINES ZENTRIFUGALKOMPRESSORS ODER EINER ABSAUGDÜSE

Title (fr)

DISPOSITIF D'ATTÉNUATION DE BRUIT POUR UNE BUSE DE DÉCHARGE OU D'ASPIRATION DE COMPRESSEUR CENTRIFUGE

Publication

EP 2209997 A1 20100728 (EN)

Application

EP 08851643 A 20081120

Priority

- EP 2008065934 W 20081120
- EP 07022502 A 20071120
- EP 08851643 A 20081120

Abstract (en)

[origin: EP2063130A1] Noise damper for a radial (centrifugal) compressor, to be either integrally formed in the compressor housing or provided as a pipe section piece to be mounted on one of the housing nozzles. The damper consists of one or more side resonators, possibly of the Helmholtz-type. The side resonators may be arranged in series in the flow direction. A simple, modular and cost-effective construction of the damper consists in juxtaposing rings (diaphragms, discs) having concentric outer diameters but inner contours that are not necessarily circular and that differ from each other. The resonator cavities then result from adjacent rings having different inner contours. These contours can be circles of different diameters, possibly eccentric, triangles, squares, or a circumferential array of radially staggered tubes. A self-cleaning mechanism by injection of liquid may be added to the damper. The cleaning liquid may be recuperated by a gas scrubber provided upstream of the compressor.

IPC 1-7

F01N 7/18

IPC 8 full level

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CPC (source: EP US)

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