Title (en)

CENTRIFUGAL COMPRESSOR

Title (de)

ZENTRIFUGALVERDICHTER

Title (fr)

COMPRESSEUR CENTRIFUGE

Publication

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Application

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Abstract (en)

[origin: EP2559904A1] The present invention is intended to provide a technique in a centrifugal compressor in which the direction of protrusion of a vane blade is avoided from deviating from a specified direction as a result of a deformation of a deformation member. The present invention resides in a centrifugal compressor which includes a vane blade that is movable into and out of a diffuser passage, a space that is formed in a wall of the diffuser passage in which the vane blade is caused to be buried, and a deformation member that divides the space into a diffuser side chamber and an anti-diffuser side chamber, and deforms the volume of the anti-diffuser side chamber in a changeable manner, the deformation member causing the vane blade to move in a specified direction thereby to protrude into the diffuser passage due to a deformation thereof at the time of increasing the volume of the anti-diffuser side chamber, wherein the vane blade and the deformation member are separate bodies from each other, and only a displacement in the specified direction of a portion of the deformation member which is made into contact with the vane blade due to the deformation thereof at the time of increasing the volume of the anti-diffuser side chamber acts on the vane blade.

IPC 8 full level

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