

ABSTRACT

CENTRIFUGAL COMPRESSOR

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This centrifugal compressor is provided with an impeller mounted on a main shaft rotating around an axis line (O), and a vane device (11) for adjusting the flow rate of a fluid (F) in an inflow flow path (S3) to the impeller. The vane device (11) includes: a plurality of vane main bodies (22) provided at intervals in a circumferential direction
10 with respect to the axis line (O) of the main shaft in the inflow flow path (S3) and each of shaft portion (22b) extending in a radial direction with respect to the axis line (O) of the main shaft, wherein a mounting angle of the plurality of vane main bodies is changed by rotating the shaft portion; a plurality of link members (24) which is rotated along with the shaft portion, wherein a first end of the plurality of link members is connected to each of
15 the shaft portion (22b); a drive ring (23) which is formed with an annular shape centered on the axis line (O) and is moved in a moving direction along a rotation locus of the link member, wherein the moving direction is both a axial direction and the circumferential direction, the rotation locus is generated by rotating with the vane main body, and the drive ring is connected to a second end of the plurality of link members, and a drive
20 mechanism (25) which is connected to the drive ring (23) and transmits a force in a tangential direction to the drive ring (23).

FIG. 2