

Title (en)

METHOD FOR CONTROLLING AT LEAST ONE RADIAL BLOWER IN A COOLING SYSTEM, AND RADIAL BLOWER

Title (de)

VERFAHREN ZUR STEUERUNG VON ZUMINDEST EINEM RADIALGEBLÄSE IN EINER KÄLTEANLAGE SOWIE RADIALGEBLÄSE

Title (fr)

PROCÉDÉ POUR COMMANDER AU MOINS UN VENTILATEUR CENTRIFUGE DANS UNE MACHINE FRIGORIFIQUE ET VENTILATEUR CENTRIFUGE

Publication

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Application

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Abstract (en)

[origin: CA3096809A1] The invention relates to a method for controlling at least one radial blower (11) in a cooling system (1), wherein the radial blower (11) comprises a housing (21) in which a shaft (17) is rotationally mounted, which receives at least one impeller wheel (16, 26) of a compressor (27) at one end, which is secured to the housing (21), and the housing (21) comprises at least one radial bearing (22, 23) and at least one axial bearing (31) via which the shaft (17) is rotationally mounted in the housing (21), and said radial blower also comprises a motor (20) which is driven by a rotor (18) and a stator (19) and which drives the shaft (17), wherein, by means of at least one laser Doppler vibrometer (61, 64) assigned to the shaft (17), operating points of the shaft (17) are detected and forwarded to a controller (71) for determining an operating status of the radial blower (11).

IPC 8 full level

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