

ABSTRACT OF THE DISCLOSURE

VACUUM PUMP

A vacuum pump is provided that improves productivity by reducing a flow of gas (the number of gas molecules) flowing to a gap formed for thermal insulation, and reducing an amount of by-products accumulating in the gap, and moreover extending intervals at which maintenance is required. The vacuum pump includes: an outer cylinder having an inlet port and an outlet port; a rotor shaft rotationally supported inside the outer cylinder; rotor blades in multiple stages, the rotor blades being rotatable together with the rotor shaft; stator blades in multiple stages, the stator blades being fixed to the outer cylinder and located respectively between the rotor blades in multiple stages; and a cooling-side stator and a heating-side stator that hold the stator blades in multiple stages at predetermined intervals. An opening of a gap of a predetermined width configured to provide thermal insulation between the cooling-side stator and the heating-side stator is located at a position where the opening does not face outer circumference surfaces of the rotor blades in an axial direction of the rotating body.

Figure 1