

Title (en)
Turbomolecular pump

Title (de)
Turbomolekularpumpe

Title (fr)
Pompe turbo-moléculaire

Publication
EP 1340918 A1 20030903 (EN)

Application
EP 03251052 A 20030221

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Abstract (en)
A pump apparatus in accordance with the present invention is used to discharge a process gas from, for example, a semiconductor manufacturing system, and is constructed so that a rotor is pivotally supported by a magnetic bearing (8,10,12). To decrease the solidification and deposition of process gas in a tube of the pump apparatus, heat is generated in a bearing electromagnet of magnetic bearing to keep the temperature of tube at a high temperature. Heat is generated in the bearing electromagnet, for example, by causing a bias current to flow together with a control current, or by causing a high frequency current to flow. Also, a motor (10) is heated by repeating the increase and decrease of rotational speed of motor (10), whereby the temperature of tube can be raised. <IMAGE>

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F04D 19/04

IPC 8 full level
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DOCDB simple family (publication)
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