CLAIMS

1. A vibration control structure of a stationary induction device, which is characterized by comprising:

an inside element of the stationary induction device, the inside element having an iron core and a coil wound around the iron core;

a container of the stationary induction device, the container accommodating the inside element together with a liquid-state, cooling insulation medium; and

a viscoelastic body that is supported on at least an inner surface of a surface of the container,

wherein the viscoelastic body comprises a viscoelastic adhesive that covers the surface of the container,

wherein a restraining plate is adhered to the viscoelastic body, which is supported on at least the inner surface, through the viscoelastic adhesive that covers the surface of the container, and the viscoelastic body, which is supported on at least the inner surface, is formed by an intermittent or serpentine extension of the viscoelastic adhesive that covers the surface of the container on an opposing surface that is opposed to the restraining plate on the surface of the container to cover a part of the opposing surface,

wherein a gap is formed on an outer peripheral side of the viscoelastic body that is between the restraining plate, which is adhered to the viscoelastic body supported on at least the inner surface, and the surface of the container on a side, to which the restraining plate is adhered,

wherein a squeeze film damper portion is formed by penetration of

the cooling insulation medium into the gap, which is on the outer peripheral side of the viscoelastic body supported on the inner surface.

2. The vibration control structure of the stationary induction device as claimed in claim 1, which is characterized in that the restraining plate is a magnetic shield plate or an electromagnetic shield plate.

3. The vibration control structure of the stationary induction device as claimed in claim 1, which is characterized in that the restraining plate is a damping steel plate or a damping metal plate.

4. The vibration control structure of the stationary induction device as claimed in any of claims 1 to 3, which is characterized in that the restraining plate and the surface of the container are connected together by welding or a connecting means.

5. A vibration control structure of a stationary induction device, which is characterized by comprising:

an inside element of the stationary induction device, the inside element having an iron core and a coil wound around the iron core;

a container of the stationary induction device, the container accommodating the inside element together with a liquid-state, cooling insulation medium; and

a stacked body of a plurality of restraining plates, the stacked body being supported on at least an inner surface of a surface of the container,

wherein the restraining plate on one end side in the stacked body is supported by adhesion to the container surface or supported by unification with the container surface,

wherein the two restraining plates of the stacked body are bonded together by a viscoelastic adhesive to form a viscoelastic body,

wherein the restraining plate on the one end side of the stacked body supported on the inner surface is adhered and supported through a viscoelastic adhesive covering the inner surface, and the inner surface is covered with the viscoelastic adhesive by an intermittent or serpentine extension on an opposing surface that is opposed to the restraining plate on the one end side on the inner surface to cover a part of the opposing surface,

wherein, between the inner surface and the restraining plate on the one end side of the stacked body supported on the inner surface, a viscoelastic body is formed by the viscoelastic adhesive covering the inner surface, and a gap is formed on an outer peripheral side of the viscoelastic body,

wherein a squeeze film damper portion is formed by penetration of the cooling insulation medium into the gap.

6. The vibration control structure of the stationary induction device as claimed in claim 5, which is characterized in that the stacked body is a damping steel plate or a damping metal plate.

7. The vibration control structure of the stationary induction device as claimed in claim 5 or 6, which is characterized in that the stacked body and

the surface of the container are connected together by welding or a connecting means.

8. The vibration control structure of the stationary induction device as claimed in any of claims 1 to 7, which is characterized in that an additional device for the stationary induction device is connected to an outer peripheral side of the container through a connection apparatus comprising a steel plate, and

that a viscoelastic body comprising a viscoelastic adhesive is supported on a surface of the steel plate of the connection apparatus.