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(54) Title: METHOD AND APPARATUS FOR POSITIONING OPTICAL ISOLATOR ASSEMBLY WITH REPLACEABLE MOTOR ASSEMBLY

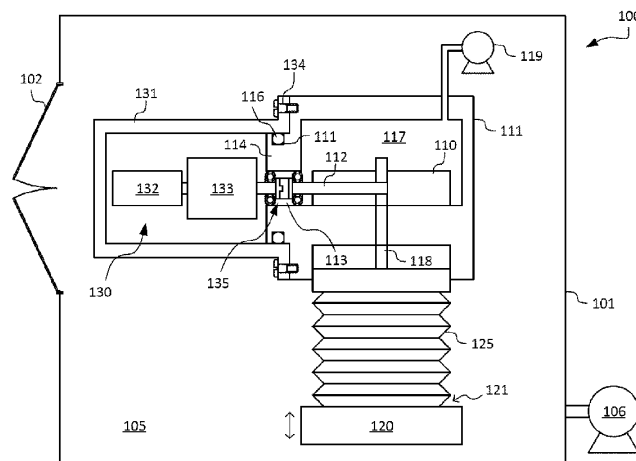


FIG. 1

(57) Abstract: An apparatus includes a lifting device and a motor assembly. The lifting device is disposed in a lifting device housing and is configured to adjust a vertical position of an optical component connected to the lifting device. The motor assembly is disposed in a motor housing and is configured to drive the lifting device to adjust the vertical position of the optical component. The lifting device housing, the motor housing, and the optical component are disposed in an ultra-high vacuum chamber of an enclosure. In the case of motor failure, the motor housing can be disconnected from the lifting device housing, and the motor assembly can be decoupled from the lifting device, such that the motor assembly can be replaced.

[Continued on next page]

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