

Abstract

A stage mechanism which comprises a positioning mechanism including a rotating stage and a linear movement stage, the positioning mechanism being housed
5 in a vacuum chamber, and pipes leading from the outside of the vacuum chamber to the positioning mechanism. In the vacuum chamber, a trench-like space spreading underneath the positioning mechanism is provided, and the pipes connected between the positioning mechanism
10 and vacuum bulkheads are laid to be shaped substantially like a U so as to deform in response to movement of the linear movement stage without touching an inside wall or the like of the vacuum chamber in this space.