

LITHOGRAPHIC APPARATUS AND LORENTZ ACTUATOR**ABSTRACT**

A lithographic apparatus includes an actuator for producing a force in a first direction between a first and a second part including a first magnet assembly and a second magnet assembly each attached opposite to each other to the first part of the apparatus, the first magnet assembly including a first main magnet system and a first subsidiary magnet system, and the second magnet assembly including a second main magnet system and a second subsidiary magnet system, the first and second main magnet system defining a space between them in a second direction perpendicular to the first direction. The actuator includes a coil attached to the second part. The distance between at least a part of the first subsidiary magnet system and at least a part of the second subsidiary magnet system is smaller than the minimum distance between the first main magnet system and the second main magnet system.

Figure 2