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(54) **ARRANGEMENT FOR MOUNTING AN OPTICAL ELEMENT, IN PARTICULAR IN AN EUV PROJECTION EXPOSURE APPARATUS**

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See application file for complete search history.

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(57) **ABSTRACT**
The invention relates to an arrangement for mounting an optical element, in particular in an EUV projection exposure apparatus, comprising at least one actuator which exerts a controllable force on the optical element; wherein between the actuator and the optical element a mechanical coupling in the form of a pin is embodied in such a way that, relative to the drive axis of the actuator, the ratio of the stiffness of the mechanical coupling in an axial direction to the stiffness in a lateral direction is at least 100; and at least one damping element which brings about a damping of a natural vibration form of the pin in a lateral direction.

25 Claims, 10 Drawing Sheets

