

CONTROLLING A POSITION OF A MASS, ESPECIALLY IN A LITHOGRAPHIC APPARATUS

Abstract

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A controller, especially in a lithographic apparatus, for controlling a position of a mass, e.g. a substrate table (12), by means of a control force. The controller receives a feedback position signal from said mass (12) and calculates an estimated mass ($\hat{m}$) from said feedback position signal and from said control force. Then, the controller
10 uses the estimated mass ($\hat{m}$) and a desired mass acceleration to determine the control force needed to accelerate the mass (12), and move it to a desired position.

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Fig. 3