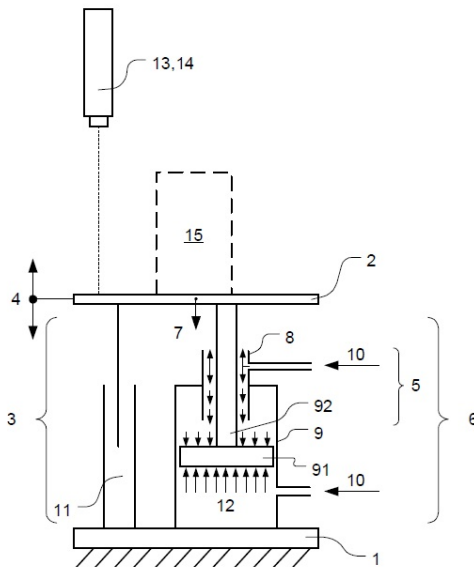


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Title: **Vibration exciter with load compensation**
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Abstract

The invention, which concerns a vibration exciter with load compensation for the dynamic excitation of test objects comprising a base, an actuator, a fitting movable by means of the actuator in an excitation direction relative to the base and guided by a linear guide means parallel to the excitation direction and a pneumatic load compensation means compensating the weight force of at least the fitting and the test object to be excited, is based on the task of generating a high-quality sinusoidal exciter signal with low interference signals by minimizing the friction occurring during load compensation and other non-linearities. The task is solved by a vibration exciter with load compensation, whose linear guide means has an air bearing and whose load compensation means includes the linear guide means. (Fig. 1)



Remark: **relates to SE-13**