

EQUIPMENT AND METHOD FOR VIBRATION DAMPING OF A LIFT CAGE**Abstract**

In the case of equipment for reducing vibrations of a lift cage (1), which is guided at rails (15), with a plurality of guide elements (5, 6, 7) for guiding the lift cage (1) along the rails (15), a sensor (11, 12) for detecting positional changes of the lift cage (1) and/or accelerations occurring at the lift cage (1), an actuator (1) arranged between the lift cage (1) and the guide elements (5, 6, 7) and regulating equipment (19) which on the basis of values transmitted from the sensor (11, 12) controls the actuator (10) for changing the position of the cage (1) relative to the rails (15), the output signal, which is produced by a regulator (20) provided in the regulating equipment (19), for controlling the actuator (10) is limited to a maximum value and in this manner a setting signal to be issued by the regulating equipment (19) is produced. The difference between the output signal of the regulator (20) and the limited output signal is fed to the regulator (20) as an additional input signal, wherein the regulator (20) is constructed in such a manner that the difference which is fed back remains as small as possible.

(Fig. 3)