

ABSTRACT

REGULATED LOW POWER CONTROL SYSTEM
FOR ELECTROSTATIC ACTUATORS

The invention concerns a control system for a servomechanism comprising a control member that can move between first and second positions defining a variable electric quantity (Ccomb) respectively between a minimum quantity (Ccomb_min) and a maximum quantity (Ccomb_max), characterized in that the control system further comprises low voltage powering means (U_{DD}), voltage increase means (L, D, Q1; L, D, Q1, Q2) connected to the terminals of the low voltage powering means and delivering a high voltage (U_h) at output, means (Ca, Cb, Cref) for measuring a value of the variable electric quantity, powered by the low voltage powering means when the high voltage is being generated, and means (REG) for regulating the voltage increase means arranged to increase the high voltage delivered for a variation in the measured electric quantity value lower than a variation threshold determined by the servomechanism, respectively to decrease the high voltage delivered for a variation in the measured electric quantity values higher than the determined variation threshold.

Figure 1s