

## Method and Apparatus for Measuring Parameters for Sled Mechanism

### ABSTRACT

A motor constant  $K_m$  of a sled mechanism of an optical disc drive is to be measured. To this end, a parameter measurement device 1 for the sled mechanism includes an oscilloscope 8 for detecting the back-electromotive force  $E_b$  of a sled motor 5, a laser Doppler meter 7 for detecting the movement velocity  $v_0$  of the pickup 4 and a computer 9. The computer calculates an equation  $E_b = K_m R_m v_0$ , where  $R_m$  is the resistance of a motor, to find the motor constant  $K_m$ .

Fig. 1