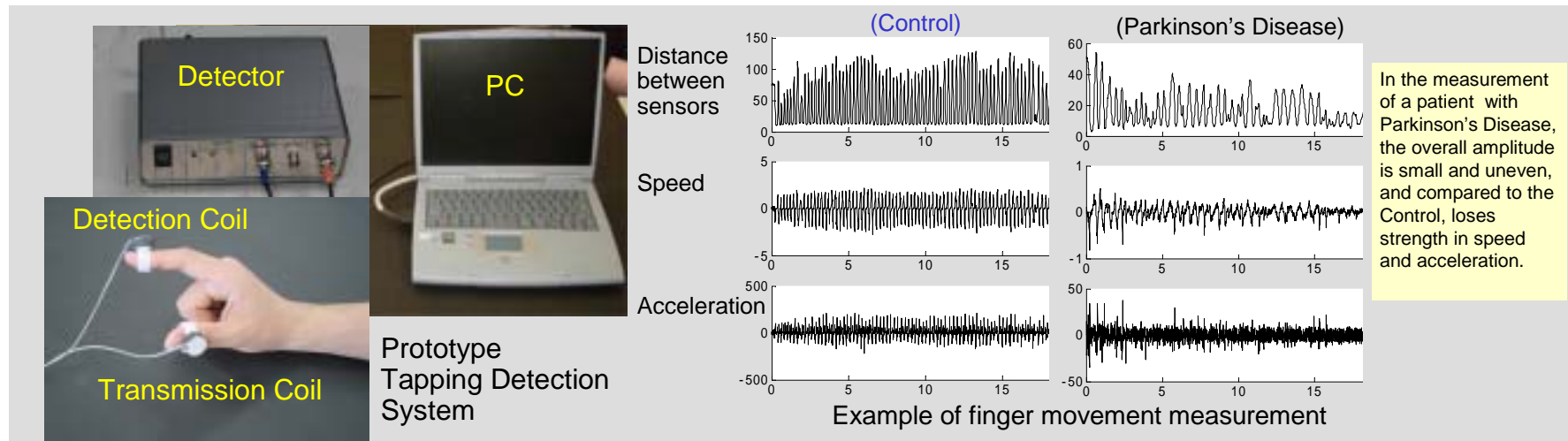


2004/6/7 Release

Development of a magnetic sensor for high-sensitivity measurement of finger movement - Enabling quantitative analysis of movement disorder and rehabilitation benefits -



The Advanced Research Laboratory of Hitachi, Ltd. (GM: Dr. OSAKABE Nobuyuki) in cooperation with Prof. Saburo SAKODA of the Dept. of Neurology, Graduate School of Medicine, Osaka University, have developed a system which simplifies the measurement of finger movement. Two magnetic sensing coils, one for oscillation and the other for detection, are worn on two fingers, and the distance between the sensors is measured. As the system is compact and simple, and allows quantitative measurement of movement disorder, it is a useful tool in measuring, for example the degree of movement disorder due to neural diseases or the amount of recovery due to rehabilitation.