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Abstract

Method and system for detecting the position of an object such as a hand-held data input device

A system is proposed for measuring the position of a pen-like object 1 with a
5 transceiver 2 at its tip. The system includes two reflectors 7, 9, which have
different reflection characteristics for electromagnetic waves. The transceiver
emits electromagnetic pulses, which are reflected back from the reflectors 7,
9, and then receives the reflected echoes 15, 17. The transceiver further
includes circuitry for distinguishing the echoes 15, 17 from each other, and
10 determining the echo delay times of the two echoes. These are measures of
the distances of the object 1 to the two reflectors 7, 9. Thus, the position of
the object 1 relative to the reflectors 7, 9 is determined.

[Fig. 1]