

ABSTRACT OF THE DISCLOSURE

DETERMINATION OF PARTICLE DISPLACEMENT OR VELOCITY FROM PARTICLE ACCELERATION MEASUREMENTS

Techniques are described for determining particle displacement or particle velocity data from particle acceleration measurements. In an embodiment, an apparatus comprises an interface configured to received particle acceleration data, one or more processors, and one or more storage media. The one or more storage media store instructions for determining one or more of particle velocity data or particle displacement data, based upon the particle acceleration data, by processing the particle acceleration data using a filter that at least approximates a Wiener filter and that uses one or more damping factors selected to provide stability in the presence of noise in the particle acceleration data.

FIG. 9