

METHOD AND APPARATUS FOR INTERNALLY DETERMINING A LOAD APPLIED BY A JACK

ABSTRACT

An embodiment of the subject invention is directed to a jack incorporating one or more strain gauges. The one or more strain gauges can be positioned on, within, or integral to the jack. When a load or force is applied by the jack, one or more materials within the jack are deformed or displaced as a result of the applied load. The one or more strain gauges are used to measure the deformation or displacement and thus measure the strain. The measured strain can be used to determine the magnitude of the load applied by the jack. In an embodiment, a plurality of strain gauges are used and the resulting strain measurements can be combined to determine the applied load.

[Figure 2]