Abstract

Method for Mapping Geometrical Features Using Opto-Electronic Arrays

A method for inspecting a surface of an object, including scanning the surface using an array of opto-electronic sensors, obtaining a reflected light signal from a location on the surface, combining the light signals to form a representation of geometrical features of the surface, and processing the representation to obtain geometric quantities of the geometrical features. An apparatus for inspecting a well screen, including an array of a plurality of opto-electronic sensors, a motion control unit, and a processor for obtaining a geometric quantity of the well screen based on an image obtained by the sensor array and the location registered by the motion control unit.

Figure 6A