

ABSTRACT OF THE DISCLOSURE

NON-CONTACT METHOD FOR MEASURING THE SHAPE OF AN OBJECT

An improved method for measuring the shape of a workpiece, and an associated device. The invention has three aspects. The first aspect of the invention is a triangulation device that creates an annular image whose diameter is a linear function of the distance from the device to the workpiece. According to the second aspect of the invention, the shape of a concave or reentrant workpiece is measured by folding the path of the incident light using a reflector inserted into the workpiece, so that light is reflected from the otherwise inaccessible interior walls of the workpiece. According to the third aspect of the invention, the incident beam of light is provided with a structured cross section.

FIG. 6