

ABSTRACT

INSPECTION OF DEFECTS IN A CONTACT LENS

A method and system for inspecting a clear and printed contact lens is provided. The contact lens is inspected by illuminating the contact lens using bright field illumination and low angle dark field illumination simultaneously, when the contact lens is disposed in a cavity between a male mold and a female mold. Further, the light emerging from the contact lens is received by an imaging optical system, and a camera uses the light received by the imaging optical system to capture an image of the contact lens. Further, a data processing system is configured to identify dark defects in the image that are in a first portion of dynamic range of brightness and identify bright defects in the image that are in a second portion of the dynamic range of brightness.

Reference figure: FIG. 5