

SYSTEMS AND METHODS OF LOCATING COOLING FEATURES IN A GAS TURBINE COMPONENT UNDER THERMAL BARRIER COATINGS

ABSTRACT

The present application provides a cooling hole location system (100) for locating a cooling hole (150) in a gas turbine component (110), wherein the cooling hole (150) is covered by a thermal barrier coating (140). The cooling hole location system (100) may include a light source (160) positioned on a first side (162) of the gas turbine component (110) and an optical detector (170) positioned on a second side (164) of the gas turbine component (110). The optical detector (170) detects light from the light source (160) visible through the thermal barrier coating (140) covering the cooling hole (150).

[Figure 6]