## Claims

What is claimed is:

1. A method for filling cooling holes in a component of a gas turbine engine, the component having an outer surface and an inner surface and at least one first cooling hole, the first cooling hole extending between the outer surface and the inner surface of the component, the method comprising the steps of:

    exposing the outer surface of the component;

    filling the first cooling hole with a polyimide;

    curing the polyimide to block the first cooling hole; and applying a second thermal barrier coating over the outer surface of the component after the step of curing the polyimide and prior to the step of installing the second cooling hole.