ABSTRACT

A SEALING ELEMENT AND A METHOD OF MANUFACTURING THE SAME

An abradable sealing element is positioned radially outwardly of a plurality of aerofoil blades of a gas turbine engine. The abradable sealing element comprises a radially inwardly facing surface region and a plurality of cooling holes.

The radially inwardly facing surface region comprises a wall structure, with the wall structure having one or more radially inwardly projecting walls formed by additive layer, powder fed, laser weld deposition.

Each of the inwardly projecting walls is continuous and defines a plurality of repeating units arranged circumferentially around the radially inwardly facing surface region, each repeating unit is open at a radially inwardly facing side of the sealing element, and each repeating unit comprises a plurality of curved portions forming a multi-lobed profile shape. Each cooling hole is provided in the radially inwardly facing surface region at a position within the multi-lobed profile shape.

[Figure 4]