

THERMAL BARRIER COATINGS WITH LOW THERMAL CONDUCTIVITY

ABSTRACT OF THE DISCLOSURE

A thermal barrier coating comprising at least 15 mol% of at least one lanthanide sesquioxide, each said lanthanide sesquioxide having a formula A_2O_3 where A is selected from the group consisting of La, Pr, Nd, Sm, Eu, Tb, and mixtures thereof, and the balance comprising a first oxide selected from the group consisting of zirconia, ceria, and hafnia, said first oxide being present in an amount of at least 50 mol%.