

## THERMAL BARRIER COATINGS WITH LOW THERMAL CONDUCTIVITY

### ABSTRACT OF THE DISCLOSURE

A thermal barrier coating comprising from 0.5 to 59.5 mol% of  $\text{Dy}_2\text{O}_3$  and from 0.5 to 59.5 mol% of at least one oxide from the group consisting of  $\text{In}_2\text{O}_3$ ,  $\text{Sc}_2\text{O}_3$ ,  $\text{MgO}$ ,  $\text{CaO}$ , and mixtures thereof, combined with at least 40 mol% of an oxide selected from the group consisting of zirconia, hafnia, and ceria.