

MULTILAYER THERMAL BARRIER COATINGS

ABSTRACT

A multilayer thermal barrier coating (TBC) may include a plurality of layers selected to provide properties to the multilayer TBC. For example, a multilayer TBC may include a first layer deposited over a substrate, a second layer deposited over the first layer and a third layer deposited over the second layer. The first layer may be selected to provide thermal cycling resistance, the second layer may be selected to provide low thermal conductivity and the third layer may be selected to provide at least one of erosion resistance and CMAS degradation resistance. The multilayer TBC may also include two layers, or more than three layers.

FIG. 1



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