

ABSTRACT OF THE DISCLOSURE

THERMAL BARRIER COATING COMPOSITIONS, PROCESSES FOR APPLYING SAME AND ARTICLES COATED WITH SAME

A process of coating an article includes the steps of (1) forming a layer of a ceramic based compound on an article; (2) providing a solution containing a metal as a particulate having a diameter of about 10 nanometers to about 1000 nanometers and present in an amount of about 25 percent to about 50 percent by volume of the solution; (3) contacting the ceramic based compound layer with the solution; (4) drying the article; and (5) optionally repeating steps (3) and (4).