

ABSTRACT

METHOD FOR PARTICLE SURFACE TREATMENT OF A
CERAMIC POWDER AND CERAMIC POWDER PARTICLES
5 OBTAINED BY SAID METHOD

The invention concerns a method for surface treatment of a ceramic material in powder form, said method comprising the step consisting in providing a powder formed of a plurality of particles of the ceramic material
10 to be treated, and in subjecting said ceramic powder particles to an ion implantation process by directing towards an external surface of said particles a singly or multiply charged ion beam (14) produced by a singly or multiply charged ion source, for example of the electron cyclotron resonance ECR type, said particles having a generally polyhedral shape.

15 The invention also concerns a material in powder form, formed of a plurality of particles having a ceramic external layer (26) and a ceramic core (24), said particles having a generally polyhedral shape.

Figure 2