

ZINC OXIDE CERAMICS AND METHOD FOR PRODUCING THE SAME**ABSTRACT OF THE DISCLOSURE**

Zinc oxide ceramics and a method for producing the same are provided wherein zinc oxide varistors for low and high voltages having excellent electric characteristics and high reliability upon DC loading and surge can be obtained in high yield by low-temperature sintering. 0.2 to 20 parts by weight of a mixed powder of bismuth oxide, titanium oxide and antimony oxide is treated in advance at a temperature of 850°C or less. The synthetic powder thus obtained is added to 100 parts by weight of ZnO material powder to produce ceramics. By using the ceramics for a zinc oxide varistor, a zinc oxide varistor for a low or high voltage can be produced in high yield, which can be sintered at a low temperature and is excellent in electric characteristics and reliability upon DC loading and surge. Aluminum is sprayed on both sides of a sintered body (11) so that an aluminum layer is formed. Copper is sprayed on the aluminum layer so that an electrode (12) is formed. A lead wire (13) is bonded to the electrode (12). Then, portions of the molded bodies other than the lead wire (13) are coated and insulated so that the zinc oxide varistor can be obtained.

FIGURE 1