

APPARATUS FOR PRODUCING ELECTROSUSPENSIONS

ABSTRACT

An apparatus for producing an electrosuspension of particles. In one aspect the apparatus comprises an insulating container fitted with two spaced apart electrodes between which a high electrical potential is applied. At least one of the electrodes is mounted for rotation by an associated electric motor. The electrode mounted for rotation preferably has a drum like configuration formed by a plurality of circumferentially spaced apart conductors. In a second aspect the invention provides an apparatus for producing an electrosuspension of micronised particles. The apparatus also comprises a container fitted with two spaced apart electrodes between which a high electrical potential is applied. In use one of the electrodes is in contact with a bed of particles and a second electrode is spaced above the particles. Field concentrating conductors are connected with the second electrode to generate ions and irradiate the surface of the particulate material with ions of opposite polarity to the first electrode.

Figure 1