Gas Insulated Bus and Particle Removal Method for Gas Insulated Bus

ABSTRACT OF THE DISCLOSURE

The present invention is provided to satisfy insulation and conductivity performance requirements, to reduce a size of a gas insulated bus, and also to make conditioning for a particle more reliable. In a gas insulated bus having a conductor 3 supported in a cylindrical metal container 1 via an insulator 2, insulating gas being contained in the metal container 1, the metal container is characterized by having an expanded diameter part 1a formed over a given range in an area of the metal container in which the insulator 2 is positioned and a reduced diameter part 1b formed over the entire area of the metal container except for the expanded diameter part. Thus, even when the temperature of the insulator 2 increases during conduction, heat from the insulator 2 is transferred to the metal container via a large space in the expanded diameter part and then released to the air through a large outer surface of the expanded diameter part of the metal container. This enables an increase in the temperature of the insulating material to be limited to a specified value or smaller. Furthermore, an electric field in the expanded diameter part of the metal container can be reduced to allow the expanded diameter part to function as a particle trap for conditioning for a particle.

FIG. 1