

ABSTRACT

BRAZING REPAIR MATERIAL AND BRAZING REPAIRING METHOD USING THE MATERIAL

In a brazing repair material 3 which is charged into a repairing portion of base material 1 in which a failure such as a crack 2 and corrosion is generated, diffusion heat treatment is carried out, the brazing repair material 3 is integrally bonded to the repairing portion to repair the repairing portion, the brazing repair material 3 comprises a mixture of non-molten alloy powder having a composition similar to that of the base material 1 and molten alloy powder which is melted at a temperature of the diffusion heat treatment, and the molten alloy powder is brazing repairing alloy consisting of 0.001 to 0.05 mass % of C, 2 to 5 mass % of Si, 10 to 25 mass % of Cr, 15 to 25 mass % of Co, 1 to 5 mass % of B, and balance of Ni, and excluding Al. With this configuration, a part having a failure such as a crack can restore original characteristics like the inherent base material.

FIG. 6