

Composite Material, its Manufacture and Use in Gas Purification

Abstract

Disclosed herein is a composite material formed from an inorganic mesoporous, or mesoporous-like, material that is dispersed throughout a polymeric matrix formed by a crosslinked polymer that has acidic- or basic-residues and which may also optionally have further acidic- or basic-residues grafted onto the inorganic mesoporous material. The resulting composite material may be used to remove acidic or basic impurities from a gas in need thereof and can be easily regenerated.

[Fig.3]