

PURIFICATION METHOD AND PURIFICATION SYSTEM FOR AIRBORNE MOLECULAR CONTAMINANTS

ABSTRACT

Provided are a purification method and a purification system for AMC. The
5 purification method comprises steps of: mixing AMC to be treated with a first water mist
to obtain a gas-liquid mixture; subjecting the gas-liquid mixture to contact photocatalysts
on a porous substrate under radiation to react into a first treated mixture; washing the first
treated mixture and the porous substrate with a second water mist to obtain a water washed
solution; and discharging a purified gas and the water washed solution. The molecular
10 weight of the first treated mixture is lower than that of the AMC to be treated, and the AMC
content in the purified gas is lower than that of the AMC to be treated. The technical means
can improve the purification rate of AMC and extend the lifespan of the photocatalysts,
thereby further improving overall purification performance.

15 FIG.1