

ABSTRACT

AMMONIA DECOMPOSITION SYSTEM

An ammonia decomposition system includes: a reactor filled with a catalyst for a
5 decomposition reaction where ammonia which is a raw material is decomposed into hydrogen
and nitrogen; and a diluent gas supply line for supplying a diluent gas having a lower ammonia
concentration than the raw material, such that the diluent gas is mixed with the raw material
before the raw material flows into the catalyst.

10 (FIG. 1)