

ABSTRACT

A fuel battery module includes a container, a fuel battery, a combustion unit, and a first reactor. The fuel battery supplies unreacted fuel to the combustion unit along a flow path for an exhaust gas containing the unreacted fuel. The combustion unit combusts the unreacted fuel. The first reactor is positioned opposite the combustion unit. The first reactor produces at least hydrogen and a dehydrogenation product from an organic hydride through a dehydrogenation reaction.