

Abstract

A combustible gas generation system includes a reactor (16) and a filter device (22). The reactor is configured to thermally decompose a hydrocarbon supplied to the combustible gas generation system into carbon and hydrogen. The filter device is configured to capture carbon flowing out of the reactor. The combustible gas generation system is configured to supply combustible gas in the combustible gas generation system to the filter device as backwashing gas for regeneration processing of the filter device.