

ABSTRACT

A shock wave generation system includes: a combustion device having a gas passage through which combustion gas flows from a base end to a front end, the front end having an opening; a combustible gas supply device configured to supply a
5 combustible gas from the base end to inside of the combustion device; an ignition device configured to ignite the combustible gas supplied to the combustion device; a flame occurrence timing detection sensor configured to detect timing of occurrence of flame caused by combustion of the combustible gas; and a determination device
configured to determine spontaneous ignition of the combustible gas before ignition by
10 the ignition device, based on a detection result from the flame occurrence timing detection sensor.