

Abstract

Provided is a gas turbine system (1), including: an ammonia tank (14); a combustor (13) including a combustion chamber (13a), which is connected to the ammonia tank (14);
5 an intake flow passage (41) connected to the combustor (13);
a compressor (11a) provided in the intake flow passage (41);
a cracked-gas reservoir (17) connected to the combustor (13);
and an ammonia cracking catalyst (16) arranged in a bleed
flow passage (43) connected to the compressor (11a), between
10 the compressor (11a) and the combustor (13) in the intake
flow passage (41), or in a space in the combustor (13), which
brings the combustion chamber (13a) and the intake flow
passage (41) into communication with each other, the ammonia
cracking catalyst (16) being connected to the ammonia tank
15 (14) and the cracked-gas reservoir (17).