

ABSTRACT

[Problem]

To provide a detoxifying device of a structure wherein the deposits can be removed cleanly, without leaving residue, even for, for example, a nozzle that is provided with a narrow diameter portion and a wide diameter portion that is further to the downstream side than the narrow diameter portion, and to provide a nozzle scraper used in outside detoxifying device.

[Means for Resolution]

A process gas nozzle 16 that comprises a narrow diameter portion 16B and a wide diameter portion 16C that is provided further to the downstream side than the narrow diameter portion 16B, said nozzle connected to a top face of a combustion chamber 11, for introducing the process gas PG into the combustion chamber 11; a nozzle scraper 18A that is able to move upward and downward within the wide diameter portion 16C, to remove deposits 17 adhered within the wide diameter portion 16C; and a head scraper 18B for removing the deposits 17 that are adhered to a lower portion of the nozzle scraper 18A, at the bottommost position of the range of movement thereof, wherein: the nozzle scraper 18A has: a scraping portion 18G for removing the deposits 17 that are adhered to the inner wall of the wide diameter portion 16C; and a main unit portion (a protruding portion) 18D that is provided at the bottom end of the narrow diameter portion 16B at the topmost position of the movement range.

[Selected Drawing] FIG. 5