

ABSTRACT

Title of Invention

ASH EXTRUSION DEVICE AND METHOD FOR REMODELING ASH
EXTRUSION DEVICE

An ash extrusion device (1) having a cooling tank (2) provided with an introduction opening (21) and a discharge opening (22) for combustion ash, a scraper (3), a drive device (4), a water-injection tube (8), and a water-discharge tube (12), the bottom surface (23) of the cooling tank (2) being provided with a first inclined surface (23a) and a second inclined surface (23b), storage water being stored at a prescribed water level, and the drive device (4) causing the scraper (3) to operate in a reciprocal manner along the bottom surface (23), the ash extrusion device (1) having first piping (5) positioned in a position that is above the second inclined surface (23b) and does not contact the scraper (3) or an arm (41). One end (5a) of the first piping (5) is positioned below the prescribed water level, the one end (5a) being provided with a first spray opening (50) for spraying a gas introduced from the other end (5b) of the first piping (5). The first spray opening (50) is connected to an opening hole at the lower end (20b) of a wall surface (20R) positioned above the

second inclined surface (23b), the storage water being circulated to a gap (G) by the water flow of the storage water, said water flow being generated due to the gas sprayed from the first spray opening (50), and by bubbles produced due to the gas.

(Fig. 1)