

ASH EXTRUSION DEVICE

ABSTRACT

An ash extrusion device (1) including a cooling tank (2), a scraper (3), a drive device (4), and a drainage pipe (12), wherein a bottom surface (23) of the cooling tank (2) is provided with a first inclined surface (23a) and a second inclined surface (23b), and the drive device (4) causes the scraper (3) reciprocally move along the bottom surface (23). The ash extrusion device (1) further includes a first pipe (5) including a first pipe tip portion (5A) that is airtightly provided at a position out of contact with the scraper (3) and the arm (41) and below the predetermined water level of stored water so as to penetrate the second inclined surface (23b) of the cooling tank (2), a connection pipe (5B) coupled to the first pipe tip portion (5A) at an outside of the cooling tank (2), a straight pipe (5C) coupled to the connection pipe (5B), and a device (51) that supplies the gas to the first pipe (5). Return ash to be accumulated on the second inclined surface (23b) side is stirred by a water flow of the stored water generated by the gas jetted from a first jetting port (50) of the first pipe tip portion (5A) and bubbles generated by the gas.

(Fig. 1)