

ABSTRACT

[Problem] A transferring means that does not cause problems in terms of heating resistance against superheated steam and against heating by a burner in a processing furnace is configured to realize transferring that is unlikely to cause failure or damage, and enables safe successive processing.

[Solution] A drive motor 15 is installed, under a transfer path 3, at each site that serves as an entrance or exit of end shutters 6a, 6b and partition shutters 7a, 7b to 12a, 12b; a tongue piece-like sending member 16 is provided on a rotation shaft of the drive motor 15, which protrudes to a surface side of the transfer path 3; and a plurality of contact-engagement-separation members 21 are provided at constant intervals on a back side of a bottom surface of the storage container 2, the tongue piece-like sending member 21 coming into contact with one of the contact-engagement-separation members 21 when the tongue piece-like sending member 16 revolves by the drive motor 15, and engaging with and separating from the contact-engagement-separation member 21 so that a transfer force in an advancing direction is transmitted to the storage container 2 in response to the revolution. Each time of revolution, the tongue piece-like sending member 16 sequentially and repeatedly contacts with engages with and separates from the plurality of contact-engagement-separation members 21 provided at constant intervals, to enable transfer of the storage container 2 in the advancing direction.