A B S T R A C T

A vertical heat-processing apparatus (1) includes a shutter device (17) configured to mask a load port (4) of a process chamber (5) after target substrates (W) are unloaded through the load port (4). The shutter device (17) has a port cover (18) configured to selectively close the load port (4) of the process chamber (5). The port cover (18) is supported and moved by an extensible/contractible arm (19) of an actuator. The actuator is configured to linearly move the port cover (18) by the extensible/contractible arm (19) between a closing position (PB) to close the load port (4) and a waiting position (PA) laterally shifted from the closing position (PB).

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