

ABSTRACT

A flap gate 100 includes: a door body 10 that rotates about a predetermined rotation axis X between a lying state where the door body 10 lies in water and a raised state where the door body 10 is raised from the water; a mooring 1 that moors the door body 10 in the lying state; an air chamber 70 located in the water and airtightly partitioned; and a connecting chamber 73 adjacent to the air chamber 70 with a partition 71 interposed therebetween, the connecting chamber 73 including a lower portion that is open in the water and an upper portion including an air pocket 74. The mooring 1 includes a hook 2 that switches between an engaged state where the hook 2 is engaged with the door body 10 in the lying state and a disengaged state where the hook 2 is disengaged from the door body 10, an actuator 3 that generates a driving force, and a transfer 4 that transfers the driving force of the actuator 3 to the hook 2. The hook 2 is located in the water. The actuator 3 is located in the air chamber 70. The transfer 4 penetrates the partition 71 from the air chamber 70 to reach the hook 2 through the air pocket 74.

FIG. 3