

## CLAIMS

1. A storage module comprising:
  - a chamber;
  - 5 a support disposed in the chamber;
  - a sensor to detect an orientation of a consumable member on the support;
  - a driving unit to rotate the support based on the orientation of the consumable member detected by the sensor;
  - 10 a storage unit disposed below the support in the chamber and configured to store the consumable member; and
  - an elevating unit to vertically move the storage unit in the chamber.
- 15 2. The storage module of claim 1, wherein the driving unit is disposed directly below the support to rotate the support.
3. The storage module of claim 2, wherein the elevating unit vertically moves the support, the driving unit, and the  
20 storage unit.
4. The storage module of claim 1, wherein the driving unit rotates a placement base to which the support, the storage unit, and the elevating unit are fixed.
- 25 5. The storage module of any one of claims 1 to 4, wherein

the consumable member is at least one selected among an edge ring, a cover ring, and an upper electrode.

6. The storage module of any one of claims 1 to 5, wherein  
5 the sensor is a line sensor.

7. The storage module of any one of claims 1 to 5, wherein the sensor is an image sensor.

10 8. The storage module of any one of claims 1 to 7, wherein the elevating unit is a ball screw.

9. A substrate processing system comprising:  
a vacuum transfer module  
15 at least one substrate processing module connected to the vacuum transfer module; and  
a storage module connected to the vacuum transfer module, wherein the storage module includes:  
a chamber;  
20 a support disposed in the chamber;  
a sensor to detect an orientation of a consumable member on the support, the consumable member being used in the at least one substrate processing module;  
a driving unit to rotate the support based on the  
25 orientation of the consumable member detected by the sensor;  
a storage unit disposed below the support in the chamber

and configured to store the consumable member; and

an elevating unit to vertically move the storage unit in the chamber.

5 10. A method of transferring a consumable member in a storage module, comprising:

moving a storage unit, in which the consumable member is stored, to a position facing a gate valve of the storage module in a state where a door and the gate valve of the storage module are closed;

10 evacuating the storage module and adjusting a pressure in the storage module using a purge gas;

opening the gate valve and allowing a vacuum transfer robot to receive the consumable member from the storage unit;

15 moving a substrate support disposed on or above the storage unit to the position facing the gate valve;

placing the consumable member received by the vacuum transfer robot on the substrate support;

20 moving the substrate support to an alignment position and performing a positional alignment by rotating the consumable member;

moving the substrate support to the position facing the gate valve; and

25 allowing the vacuum transfer robot to receive the consumable member from the substrate support.