WHAT IS CLAIMED IS:

Claim 1. An integrated coupling module comprising:

an opening/closing module including a cap gripping unit gripping a cap of a container; and

a coupler fixing module fixing a coupler discharging a liquid in the container to an outside, wherein the coupler is disposed higher than the cap gripping unit,

wherein the cap gripping unit may move from a first position at which the cap gripping unit overlaps the coupler in the vertical direction to a second position at which the cap gripping unit does not overlap the coupler, and,

when the cap gripping unit moves to the second position, the coupler is lowered to be inserted into an outlet of the container.

Claim 2. The integrated coupling module according to claim 1 comprising a driving module connected to the coupler fixing module to move the opening/closing module from the first position to the second position.

Claim 3. The integrated coupling module according to claim 2, wherein the coupler fixing module includes a holder to which the coupler is fixed and a first rotating

unit rotating the coupler or a key code of the coupler,

the opening/closing module includes a first support portion supporting the cap gripping unit and a second rotating unit rotating the cap gripping unit, and

the driving module moves the first support portion to the second position.

Claim 4. The integrated coupling module according to claim 3, wherein the first rotating unit is disposed higher than the second rotating unit.

Claim 5. An integrated coupling module comprising:

an opening/closing module including a cap gripping unit gripping a cap of a container;

a coupler fixing module fixing a coupler discharging a liquid in the container to an outside, wherein the coupler is disposed higher than the cap gripping unit; and

an angle adjusting module adjusting a tilt angle of the opening/closing module and the coupler fixing module, wherein the angle adjusting module includes a first adjusting unit adjusting the tilt angle of the cap gripping unit and the coupler by axially rotating the couple fixing module with respect to a first direction; and a second adjusting unit adjusting the tilt angle of the cap gripping

unit and the coupler by axially rotating the coupler fixing module in a second direction intersecting the first direction.

Claim 6. The integrated coupling module according to claim 5, wherein the cap gripping unit and the coupler are adjusted to the same tilt angle by the first adjusting unit and the second adjusting unit.

Claim 7. The integrated coupling module according to claim 5 further comprising a lifting/lowering module lifting and lowering the coupler fixing module, wherein the angle adjusting module is disposed between the coupler fixing module and the lifting/lowering module.

Claim 8. The integrated coupling module according to claim 7, wherein the angle adjusting module further includes a third support portion connecting the lifting/lowering module and the coupler fixing module, wherein the second adjusting unit is disposed between the lifting/lowering module and the third support portion and the first adjusting unit is disposed between the third support portion and the coupler fixing module.

Claim 9. The integrated coupling module according to claim 8, wherein the third support portion includes a one-end portion connected to the lifting/lowering module, a the-other-end portion connected to the coupler fixing module, and a bent portion formed between the one-end portion and the the-other-end portion.

Claim 10. The integrated coupling module according to claim 1 comprising a sensing module sensing a position and a tilt of the cap, wherein the sensing module includes a fourth support portion connected to the coupler fixing module, a first sensing unit disposed on the fourth support portion to sense the position of the cap, and a second sensing unit disposed on the fourth support portion to sense the tilt of the cap.

Claim 11. The integrated coupling module according to claim 1, wherein the cap gripping unit includes a plurality of slits into which protrusions of the cap are inserted and a latch unit to be coupled to the protrusions inserted into the slits.

Claim 12. A coupling method comprising:

separating a cap from a container by rotating a cap

gripping unit at a first position;

withdrawing the cap gripping unit from the first position and aligning a coupler disposed over the cap gripping unit with an outlet of the container;

discharging a liquid stored in the container by inserting the coupler into the outlet;

fastening the cap to the container by returning the cap gripping unit to the first position; and

wherein, in the step of separating the cap, the coupler is disposed over the cap gripping unit and the cap gripping unit and the coupler are disposed to be vertically overlapped.