CLAIMS

1. An air conditioner including:

a casing that is installed in a space to be air-conditioned and that has a first blow-out port to blow out air; and

a first flap that is provided to the first blow-out port and that vertically varies the direction of air blown out from the first blow-out port by rotating from an upper limit to a lower limit of a first rotation range;

the first flap in swing control performing, within a first range which is smaller than the first rotation range and either near to the upper limit of the first rotation range or equidistant from the upper limit and the lower limit, a first action of approaching the lower limit of the first rotation range until reaching a lower end of the first range and a second action of approaching the upper limit of the first rotation range away from the lower end of the first range and rotating through the entire first range due to at least one of the first action and the second action, and/or performing, within a second range which is smaller than the first rotation range and either near to the lower limit of the first rotation range or equidistant from the upper limit and the lower limit, a third action of approaching the upper limit of the first rotation range until reaching an upper end of the second range and a fourth action of approaching the lower limit of the first rotation range away from the upper end of the second range and rotating through the entire second range due to at least one of the third action and the fourth action,

wherein the first flap performs a full rotating action that rotates without resting in the entire range of the first rotation range, and

wherein, in the swing control, the first flap repeats a set including the first action, the second action and the full rotating action and/or a set including the third action, the fourth action and the full rotating action.

2. The air conditioner according to claim 1, wherein, in the swing control, the full rotating action is at least one of a rotating action immediately before the first action, a rotating action immediately after the second action, a rotating action immediately before the third action, and a rotating action immediately after the fourth action.

3. The air conditioner according to claim 1 or claim 2, wherein

a starting point of the first action and an ending point of the second action are the same, and

a starting point of the third action and an ending point of the fourth action are the same.

4. The air conditioner according to claim 3, wherein

the lower limit of the first rotation range is included in the second range when the second range is near the lower limit of the first rotation range.

5. The air conditioner according to any one of claims 1 to 4, wherein

the upper limit of the first rotation range is included in the first range when the first range is near the upper limit of the first rotation range.

6. The air conditioner according to any one of claims 1 to 5, wherein

the first range is a range from a median point between the upper limit and lower limit of the first rotation range to the upper limit of the first rotation range, and the second range is a range from the median point to the lower limit of the first rotation range.

7. The air conditioner according to any one of claims 1 to 6, wherein

the first flap performs a fifth action and a sixth action,

the fifth action is to rotate from an upper end to a lower end of a third range that includes the median point between the upper limit and the lower limit of the first rotation range and does not include the upper limit and the lower limit, and

the sixth action is to rotate from the lower end to the upper end of the third range.

8. The air conditioner according to any one of claims 1 to 7, further including a second flap, wherein:

the casing further has a second blow-out port to blow out air;

the second flap is provided to the second blow-out port and vertically varies the direction of air blown out from the second blow-out port by rotating from an upper limit to a lower limit of a second rotation range; and

the second flap in swing control performs, within a fourth range which is smaller than the second rotation range and near to the upper limit of the second rotation range, a seventh action of approaching the lower limit of the second rotation range until reaching the lower end of the fourth range and an eighth action of approaching the upper limit of the second rotation range away from the lower end of the fourth range and rotates through the entire fourth range due to at least one of the seventh action and the eighth action, and/or performs, within a fifth range which is smaller than the second rotation range and near to the lower limit of the second rotation range, a ninth action of approaching the upper limit of the second rotation range until reaching the upper end of the fifth range and a tenth action of approaching the lower limit of the second rotation range away from the upper end of the fifth range and rotates through the entire fifth range due to at least one of the ninth action and the tenth action.

9. The air conditioner according to any one of claims 1 to 7,

further including a first drive motor to drive the first flap,

the first drive motor having substantially the same speed per unit time when moving the first flap.