Claims

1. A refrigerator comprising:

a vegetable compartment;

a vegetable storage case provided in the vegetable compartment; and

a light emitting device provided in the vegetable compartment,

wherein the light emitting device has a first light emitting part to emit red light, a second light emitting part to emit green light, and a third light emitting part to emit blue light;

wherein each of the first light emitting part, the second light emitting part, and the third light emitting part has an optical axis tilted downward with respect to a horizontal plane, and emits light toward an inside of the vegetable storage case; and

wherein, after the first light emitting part, the second light emitting part, and the third light emitting part simultaneously emit light, the third light emitting part is first turned off.

2. The refrigerator according to claim 1, wherein the light emitting device is arranged above a center of the vegetable storage case in a vertical direction.

3. The refrigerator according to claim 1 or 2, wherein the light emitting device is arranged to face a back surface of the vegetable storage case.

4. The refrigerator according to any one of claims 1 to 3, wherein the vegetable storage case has an upper case and a lower case, and

wherein the light emitting device is arranged so that the light emitted from each of the first light emitting part, the second light emitting part, and the third light emitting part is directed toward an inside of the lower case.

5. The refrigerator according to any one of claims 1 to 4, wherein an angle formed by the optical axis and the horizontal plane is in a range of 5 degrees to 85 degrees.

6. The refrigerator according to claim 5, wherein the angle formed by the optical axis and the horizontal plane is in a range of 10 degrees to 45 degrees.

7. The refrigerator according to any one of claims 1 to 6, wherein each of the first light emitting part, the second light emitting part, and the third light emitting part is a plurality of light emitting elements or a plurality of groups of light emitting elements.

8. The refrigerator according to any one of claims 1 to 7, wherein the light emitting device emits light during a daytime period, and the light emitting device is turned off during a nighttime period.

9. The refrigerator according to any one of claims 1 to 8, further comprising:

a movement mechanism to move the light emitting device so as to change a tilt of the optical axis with respect to the horizontal plane; and

a controller to control the movement mechanism according to a position of a vegetable in the vegetable storage case.

10. The refrigerator according to claim 9, further comprising an imaging device to take an image of an inside of the vegetable storage case,

wherein the controller detects the position of the vegetable in the vegetable storage case based on the image taken by the imaging device.