[FIG. 13] is a front view showing an open/close plate of the cover member of the blowing device of the third embodiment of the present invention.

[FIG. 14] is a block diagram showing a configuration of the blowing device of the third embodiment of the present invention.

[FIG. 15] is a flow chart showing a blowing operation of the blowing device of the third embodiment of the present invention.

**Description of Embodiment**

[0025] <First Embodiment>

With reference to drawings, the following describes an embodiment of the present invention. FIG. 1 shows a perspective view of a blowing device of a first embodiment, and FIG. 2 shows a side sectional view thereof. In FIG. 1 and FIG. 2, each hollow arrow indicates an airflow. A blowing device 1 is installed on a floor surface or the like in a room and has a casing 2 whose horizontal sectional shape is substantially elliptical. A demountable cover member 3 is mounted on a rear surface side of the casing 2, and an insect catching portion 50, which will be detailed later, is arranged on an inner surface of the cover member 3.

[0026] A sleeve portion 12 made of a transparent resin is provided in a circumferential edge portion of an upper surface of the casing 2. An operation portion 6 is provided in a front portion of the upper surface of the casing 2. The operation portion 6 has a plurality of buttons (not shown) and is operated by a user to perform operation setting for the blowing device 1. By operating the buttons, it is possible to issue instructions about driving on/off of the blowing device 1, changing of an air volume of an after-mentioned blower 10, on/off of an after-mentioned ion generator 11, and so on.

[0027] An inflow port 20 is open through a rear surface of the casing 2, and a blow-off port 5 is open through the upper surface of the casing 2. A protruding plate 13 that protrudes upward is provided in a middle portion of the blow-off port 5. The cover member 3 has a plurality of suction ports 4 formed therethrough, and between the cover member 3 and the rear surface of the casing 2, an insect catching space 25 is formed that allows the suction ports 4 and the inflow port 20 to communicate with each other.

[0028] In the casing 2, a blowing passage 7 is provided that links the inflow port 20 to

the regions A2 to A4, respectively, it is possible to peel off, for example, the portion of the insect catching sheet 51, which corresponds to the region A3, from the region A3 along the cut 54 and bond it to the region A1. This can eliminate waste of the insect catching sheet 51 and thus can achieve a cost reduction.

[0074] While, in this embodiment, the insect catching sheet 51 is configured to be able to be divided into four regions by the cut 54, the insect catching sheet 51 may be configured to be able to be divided into, for example, two or six regions. Furthermore, the cut 54 may be formed in the insect catching sheet 51 so that the regions A1 to A4 vary in shape and area.

[0075] This embodiment can also provide a similar effect to that obtained by the first embodiment. Furthermore, the insect catching sheet 51 has the cut 54 to divide the insect catching sheet 51 so that the insect catching sheet 51 can be peeled off region by region, and thus it is possible to eliminate waste of the insect catching sheet 51 and thus to achieve a cost reduction.

[0076] <Third Embodiment>

Next, a description is given of a third embodiment of the present invention. FIG. 12 shows a perspective view of a cover member of a blowing device of this embodiment, and FIG. 13 shows a front view of an open/close plate of the cover member. FIG. 12 shows a view of a cover member 3 as seen from an inner side. For the sake of convenience of description, portions similar to the previously mentioned portions in the first embodiment, which are shown in FIG. 1 to FIG. 10, are denoted by the same reference characters as in the first embodiment. This embodiment is different from the first embodiment in that a detection sensor 40, an open/close plate 14, and a spray portion 60 are provided. Other portions are configured similarly to those in the first embodiment.

[0077] Each of suction ports 4 is provided with the open/close plate 14 that opens/closes the each of suction ports 4. The open/close plate 14 is formed of a flat plate and supported by a swiveling axis portion 14a provided at one end portion of the open/close plate 14 so that it can swivel in a left-right direction. An open/close plate motor 16 (see FIG. 14) is linked to the swiveling axis portion 14a, and the open/close plate motor 16 is driven to open/close the open/close plate 14. The open/close plate 14 may be supported so that it can swivel in an up-down direction. Furthermore, a

frequency of replacing the insect catching sheets 51 can be decreased.

[0098] Furthermore, in the first embodiment to the fourth embodiment, the attraction light sources 21 and 22 may be omitted from the blowing device 1. Furthermore, while the first embodiment to the fourth embodiment have described, as an example, the blowing device 1 provided with the HEPA filter 9 and the ion generator 11, a configuration may also be adopted in which the HEPA filter 9 and the ion generator 11 are omitted, and the insect catching portion 50 is provided in a circulator that blows off air through the blow-off port 5 so that air is circulated in a room.

**Industrial Applicability**

[0099] The present invention is applicable to a blowing device provided with an insect catching portion that catches insects.

**List of Reference Symbols**

[0100]

| | |
|---|---|
| 1 | blowing device |
| 2 | casing |
| 3 | cover member |
| 4 | suction port |
| 5 | blow-off port |
| 6 | operation portion |
| 7 | blowing passage |
| 8 | pre-filter |
| 9 | HEPA filter |
| 10 | blower |
| 11 | ion generator |
| 12 | sleeve portion |
| 14 | open/close plate |
| 20 | inflow port |
| 21、22 | attraction light source |
| 31 | rib |
| 50 | insect catching portion |