DESCRIPTION

Title of Invention: BLOWER APPARATUS

TECHNICAL FIELD

[0001] The present disclosure relates to a blower apparatus having a display device, and more particularly to a blower apparatus that sends out an airflow toward the front of a display surface.

BACKGROUND ART

[0002] There is known an image display device that includes an air blower, and the image display device blows out airflows toward a center of a screen from blowing ports at locations separated from each other with the screen viewed by a viewer interposed therebetween and sends out the airflows forward from the screen by colliding the airflows with each other (for example, PTL 1).

Citation List

Patent Literature

[0003] PTL 1: Unexamined Japanese Patent Publication No. 2006-352424

SUMMARY

[0004] For example, the above image display device can imitate wind blown from a window by an airflow sent forward from a screen displaying a landscape. That is, according to this image display device, it is possible to provide a realistic feeling (bodily sensation) of a situation in which the airflow is blown out to the viewer in front of the display surface to some extent, but it is required to further improve the realistic feeling (bodily sensation).

[0005] The present disclosure is to provide a blower apparatus capable of improving sensibility of an airflow sent toward the front of a display surface.

[0006] A blower apparatus according to an aspect of the present disclosure includes a first blow-out port, a second blow-out port, a first switch, a second switch, and a controller. The first blow-out port blows out a first airflow in substantially parallel with a display surface of a display device having a housing which has a substantially rectangular shape in front view in a first direction from one side of the housing of the display device to the other side of the housing facing the one side. The second blow-out port blows out a second airflow in substantially parallel with the display surface in a second direction from the other side of

to the one side. The first switch is provided at a flow path to the first blow-out port, and switches between an airflow having a first temperature and an airflow having a second temperature different from the first temperature, and circulates the airflow as the first airflow. The second switch is provided at a flow path to the second blow-out port, switches between the airflow having the first temperature and the airflow having the second temperature, and circulates the airflow as the second airflow. The controller causes the first airflow from the first blow-out port and the second airflow from the second blow-out port of which blown air volumes and temperatures are respectively controlled to generate a third airflow forward from the display surface by controlling an air blower provided outside to send out, to the first switch and the second switch, the airflow having the first temperature and the airflow having the second temperature, the first switch, and the second switch.

[0007] According the present disclosure, it is possible to improve the sensibility of the airflow sent toward the front of the display surface.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] Fig. 1 is a schematic configuration diagram of an exercise support system using a blower apparatus according to a first exemplary embodiment of the present disclosure.

Fig. 2 is a schematic block diagram of the exercise support system.

Fig. 3 is a schematic configuration diagram of the blower apparatus included in the exercise support system.

Fig. 4A is a schematic cross-sectional view of the blower apparatus taken along a plane parallel to a display surface so as to include a first blow-out port and a second blow-out port formed in the blower apparatus.

Fig. 4B is a schematic cross-sectional view of the blower apparatus taken along a horizontal plane so as to include the first blow-out port and the second blow-out port.

Fig. 5 is a schematic block diagram of a device for air-conditioning of air to be supplied to the blower apparatus.

Fig. 6 is a block diagram for controlling blown air volumes and temperatures of airflows blown out from the first blow-out port and the second blow-out port constituting the blower apparatus.