DESCRIPTION

Title of Invention

INDOOR UNIT OF AIR-CONDITIONING APPARATUS AND AIR-CONDITIONING APPARATUS

Technical Field

[0001]

The present invention relates to an indoor unit of an air-conditioning apparatus and an air-conditioning apparatus. The indoor unit includes top panels configured to be attached to a back casing.

Background Art

[0002]

In the related art, if a top panel of a casing of an indoor unit needs to be replaced due to, for example, damage, the top panel is detached by opening upward around the upper back end portion thereof serving as a pivot axis (for example, see Patent Literature 1).

Citation List

Patent Literature

[0003]

Patent Literature 1: Japanese Unexamined Patent Application Publication No. 2015-31454

Summary of Invention

Technical Problem

[0004]

In a technique in Patent Literature 1, the shape design of the indoor unit needs to be made such that a remote-control communication unit at a lower position in the top panel is disposed outside a pivot path region. The pivot path region includes a path along which the top panel to be detached pivots.

[0005]

Embodiments of the present invention seek to provide an indoor unit of an air-conditioning apparatus and an air-

conditioning apparatus. In the indoor unit, there are no restrictions on the shape design of a remote-control communication unit at a lower position in the indoor unit.

Solution to Problem

[0006]

An indoor unit of an air-conditioning apparatus according to an embodiment of the present invention includes a back casing and a first top panel having a first pivot axis under the back casing, the first top panel being configured to be attached to the back casing. The first top panel is configured to be detached from the back casing by opening downward from the back casing around the first pivot axis. The indoor unit includes an electric component box. When the first top panel opens downward, a downward-opening pivot path region including a path along which the first top panel moves is shaped. An upper portion of the electric component box is formed to be disposed outside the downward-opening pivot path region such that a front portion of the upper portion is lower than a back portion of the upper portion. The first top panel further includes, in a lower portion of the first top panel, a bent portion that connects a first front portion and a bottom portion. The electric component box includes a remote-control communication unit in a lower portion of the electric component box. The remote-control communication unit is disposed inside the bent portion of the first top panel.

An indoor unit of an air-conditioning apparatus according to another embodiment of the present invention includes a back casing and a first top panel having a first pivot axis under the back casing, the first top panel being configured to be attached to the back casing. The first top panel is configured to be detached from the back casing by opening downward from the back casing around the first pivot axis. The indoor unit comprises a second top panel having a second pivot axis above the back casing, the second top panel overlapping an inside of the first top panel. The second top panel is configured to be detached from the back casing by opening upward from the back casing around the second pivot axis.

[0007]

An air-conditioning apparatus according to another embodiment of the present invention includes the indoor unit of an air-conditioning apparatus as described above.

Advantageous Effects of Invention

[0008]

In the indoor unit of an air-conditioning apparatus and the air-conditioning apparatus according to the embodiments of the present invention, the first top panel is configured to be detached from the back casing by opening downward from the back casing around the first pivot axis. The expression "downward-opening" means that the first top panel pivots downward from the back casing around the first pivot axis under the back casing. Thus, it is possible to make a shape design of the indoor unit such that a remote-control communication unit at a lower position in the first top panel is disposed outside the pivot path of the first top panel to be detached. As a result, the restriction on the shape design of the indoor unit may be eliminated.

Brief Description of Drawings

[0009]

[Fig. 1] Fig. 1 is a diagram of a refrigerant circuit illustrating an air-conditioning apparatus according to Embodiment 1 of the present invention.

[Fig. 2] Fig. 2 is an external perspective view illustrating an indoor unit of the air-conditioning apparatus according to Embodiment 1 of the present invention.