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SEALING PLATE DEVICE FOR AN AIR CONDITIONER

BACKGROUND OF THE INVENTION

The present invention relates to a sealing plate device for an air conditioner. More particularly, the present invention relates to a sealing plate device which can be extended to fit various types of air conditioners.

A conventional wooden sealing plate device for an air conditioner has four wooden plates disposed between a wall and the air conditioner. However, the conventional wooden sealing plate device cannot be extended to fit various types of air conditioners. Furthermore, the spacing between a wall and the air conditioner cannot be sealed tightly by the sealing plate device.

SUMMARY OF THE INVENTION

An object of the present invention is to provide a sealing plate device which can be extended to fit various types of air conditioners.

Another object of the present invention is to provide a sealing plate device which can seal a spacing between a wall and an air conditioner tightly.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a partially perspective exploded view of an L-shaped corner plate and two extensible plates of a preferred embodiment in accordance with the present

invention;

FIG. 2 is a perspective assembly view of a sealing plate device for an air conditioner of a preferred embodiment in accordance with the present invention;

FIG. 3 is a partially schematic view illustrating an operation of a sealing plate device for an air conditioner of a preferred embodiment in accordance with the present invention;

FIG. 4 is another schematic view illustrating an operation of a sealing plate device for an air conditioner of a preferred embodiment in accordance with the present invention; and

FIG. 5 is a perspective schematic view illustrating an application of a sealing plate device for an air conditioner of a preferred embodiment in accordance with the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Referring to FIGS. 1 to 4, a sealing plate device for an air conditioner comprises an adhesive plastics foam band 6, four extensible plates 2, four L-shaped corner plates 1, and eight tension springs 5.

Each of the extensible plates 2 is disposed between two of the L-shaped corner plates 1.

The adhesive plastics foam band 6 is surrounded by the extensible plates 2 and the L-shaped corner

plates 1.

Each of the L-shaped corner plates 1 has a fixed seat 3, two guide rails 12 perpendicular to each other, and two pairs of guide plates 11 disposed on two end portions of the L-shaped corner plate 1.

Each of the extensible plates 2 has a bottom slide groove 21, and two connection seats 4.

Each of the tension springs 5 is connected to the respective fixed seat 3 and the respective connection seat 4.

Each of the guide rails 12 is inserted in the respective bottom slide groove 21.

When each of the extensible plates 2 moves between two of the L-shaped corner plates 1, the guide plates 11 guide the extensible plate 2 without derailing the L-shaped corner plates 1.

Referring to FIG. 5, the adhesive plastics foam band 6 surrounds an air conditioner 7. Four extensible plates 2 and four L-shaped corner plates 1 surround the adhesive plastics foam band 6. Therefore, the spacing between a wall and the air conditioner 7 is sealed tightly by the sealing plate device of the present invention.

I CLAIM:

1. A sealing plate device for an air conditioner comprising an adhesive plastics foam band (6), four extensible plates (2), four L-shaped corner plates (1), and eight tension springs (5), characterized in that:

each of the extensible plates (2) is disposed between two of the L-shaped corner plates (1),

the adhesive plastics foam band (6) is surrounded by the extensible plates (2) and the L-shaped corner plates (1),

each of the L-shaped corner plates (1) has a fixed seat (3), two guide rails (12) perpendicular to each other, and two pairs of guide plates (11) disposed on two end portions of the L-shaped corner plate (1),

each of the extensible plates (2) has a bottom slide groove (21), and two connection seats (4),

each of the tension springs (5) is connected to the respective fixed seat (3) and the respective connection seat (4),

each of the guide rails (12) is inserted in the respective bottom slide groove (21),

when each of the extensible plates (2) moves between two of the L-shaped corner plates (1), the guide plates (11) guide the extensible plate (2) without derailing the L-shaped corner plates (1).