Claim:

1. An outdoor machine of an air conditioner, comprising:

a housing;

a heat exchanger, which is placed on a rear side;

a blower fan, which is placed on a front side of the heat exchanger and blows air from the rear side to the front side of the housing;

a fan motor, which is placed between the heat exchanger and the blower fan and drives the blower fan; and

a fan motor mount, to which the fan motor is fixed,

wherein the heat exchanger, the blower fan, the fan motor and the fan motor mount are placed inside the housing,

wherein the fan motor mount comprises:

a fan motor support plate, which has a lower end portion fixed to a bottom plate configuring a bottom face of the housing, is provided substantially in a vertical direction toward a top face of the housing and supports the fan motor in a middle of the vertical direction; and

a top plate, which connects to fix an upper end portion of the fan motor support plate and a front panel configuring a front face of the housing,

wherein the fan motor support plate is formed with:

a plurality of props which extends substantially in the vertical direction from the bottom plate;

a prop horizontal plane, which connects upper end portions of the props to each other and extends in a front-rear direction from the upper end portions of the props;

a prop front plane, which is downwardly and substantially vertically bent from the prop horizontal plane to face the front panel;

a fitting portion, which is provided on the prop horizontal plane and fitted to a rear end of the top plate; and

a first screw hole, which is provided on the prop front plane to fix the top plate,

wherein the top plate is formed with:

a screw fixing piece, which has a shape parallel to the prop front plane and extending downward and is provided with a second screw hole corresponding the first screw hole of the fan motor support plate,

wherein the fitting portion of the fan motor support plate is fitted to the rear end of the top plate, and

wherein the screw fixing piece of the top plate is located at the lowermost position of the top plate in a state where the top plate is fitted to the fitting portion of the fan motor support plate.

2. An outdoor machine of an air conditioner, comprising:

a housing;

a heat exchanger, which is placed on a rear side;

a blower fan, which is placed on a front side of the heat exchanger and blows air from the rear side to the front side of the housing;

a fan motor, which is placed between the heat exchanger and the blower fan and drives the blower fan; and

a fan motor mount, to which the fan motor is fixed,

wherein the heat exchanger, the blower fan, the fan motor and the fan motor mount are placed inside the housing,

wherein the fan motor mount comprises:

a fan motor support plate, which has a lower end portion fixed to a bottom plate configuring a bottom face of the housing, is provided substantially in a vertical direction toward a top face of the housing and supports the fan motor in a middle of the vertical direction; and

a top plate, which connects to fix an upper end portion of the fan motor support plate and a front panel configuring a front face of the housing,

wherein the fan motor support plate is formed with:

a plurality of props which extends substantially in the vertical direction from the bottom plate;

a prop horizontal plane, which connects upper end portions of the props to each other and extends in a front-rear direction from the upper end portions of the props;

a prop front plane, which is downwardly and substantially vertically bent from the prop horizontal plane to face the front panel;

a fitting portion, which is provided on the prop horizontal plane and fitted to a rear end of the top plate; and

a first screw hole, which is provided on the prop front plane to fix the top plate,

wherein the top plate is formed with:

a screw fixing piece, which has a shape parallel to the prop front plane and extending downward and is provided with a second screw hole corresponding the first screw hole of the fan motor support plate,

wherein the screw fixing piece of the top plate is located on the front side of the prop front plane of the fan motor support plate, in a state where the fitting portion of the fan motor support plate is fitted to the rear end of the top plate,

wherein the fitting portion of the fan motor support plate has a shape an L-shaped cross-section including an upright portion and a horizontal plate piece formed by cutting and raising a center portion in the lateral direction of the prop horizontal plane, so that an opening is formed at both left and right sides and the front side of the fitting portion, except for a position corresponding to the upright portion; and

wherein, when the rear end of the top plate below the horizontal plate piece is located, the movement in the vertical direction of the top plate is restricted.

3. An outdoor machine of an air conditioner, comprising:

a housing;

a heat exchanger, which is placed on a rear side;

a blower fan, which is placed on a front side of the heat exchanger and blows air from the rear side to the front side of the housing;

a fan motor, which is placed between the heat exchanger and the blower fan and drives the blower fan; and

a fan motor mount, to which the fan motor is fixed,

wherein the heat exchanger, the blower fan, the fan motor and the fan motor mount are placed inside the housing,

wherein the fan motor mount comprises:

a fan motor support plate, which has a lower end portion fixed to a bottom plate configuring a bottom face of the housing, is provided substantially in a vertical direction toward a top face of the housing and supports the fan motor in a middle of the vertical direction; and

a top plate, which connects to fix an upper end portion of the fan motor support plate and a front panel configuring a front face of the housing,

wherein the fan motor support plate is formed with:

a plurality of props which extends substantially in the vertical direction from the bottom plate;

a prop horizontal plane, which connects upper end portions of the props to each other and extends in a front-rear direction from the upper end portions of the props;

a prop front plane, which is downwardly and substantially vertically bent from the prop horizontal plane to face the front panel;

a fitting portion, which is provided on the prop horizontal plane and fitted to a rear end of the top plate; and

a first screw hole, which is provided on the prop front plane to fix the top plate,

wherein the top plate is formed with:

a screw fixing piece, which has a shape parallel to the prop front plane and extending downward and is provided with a second screw hole corresponding the first screw hole of the fan motor support plate,

wherein the screw fixing piece of the top plate is located on the front side of the prop front plane of the fan motor support plate, in a state where the fitting

portion of the fan motor support plate is fitted to the rear end of the top plate,

wherein at least one of the fan motor support plate and the top plate comprises a guide part restricting the movement in the lateral direction of the top plate relative to the fan motor support plate,

wherein the guide part protrudes to the front side to be placed at least left and right sides of the screw fixing piece placed on the front side of the prop front plane of the fan motor support plate, and

wherein, when the screw fixing piece between the left and right guide parts is placed, a movement in the lateral direction of the screw fixing piece is restricted, so that the movement in the lateral direction of the top plate relative to the fan motor support plate is restricted.

4. The outdoor machine of the air conditioner according to claim 3,

wherein the guide part is formed by cutting and raising the prop front plane to the front side.

5. An outdoor machine of an air conditioner, comprising:

a housing;

a heat exchanger, which is placed on a rear side;

a blower fan, which is placed on a front side of the heat exchanger and blows air from the rear side to the front side of the housing;

a fan motor, which is placed between the heat exchanger and the blower fan and drives the blower fan; and

a fan motor mount, to which the fan motor is fixed,

wherein the heat exchanger, the blower fan, the fan motor and the fan motor mount are placed inside the housing,

wherein the fan motor mount comprises:

a fan motor support plate, which has a lower end portion fixed to a bottom plate configuring a bottom face of the housing, is provided substantially in a vertical direction toward a top face of the housing and supports the fan motor in a middle of

the vertical direction; and

a top plate, which connects to fix an upper end portion of the fan motor support plate and a front panel configuring a front face of the housing,

wherein the fan motor support plate is formed with:

a plurality of props which extends substantially in the vertical direction from the bottom plate;

a prop horizontal plane, which connects upper end portions of the props to each other and extends in a front-rear direction from the upper end portions of the props;

a prop front plane, which is downwardly and substantially vertically bent from the prop horizontal plane to face the front panel;

a fitting portion, which is provided on the prop horizontal plane and fitted to a rear end of the top plate; and

a first screw hole, which is provided on the prop front plane to fix the top plate,

wherein the top plate is formed with:

a screw fixing piece, which has a shape parallel to the prop front plane and extending downward and is provided with a second screw hole corresponding the first screw hole of the fan motor support plate,

wherein the screw fixing piece of the top plate is located on the front side of the prop front plane of the fan motor support plate, in a state where the fitting portion of the fan motor support plate is fitted to the rear end of the top plate,

wherein a vent hole penetrating the prop front plane is provided on the rop front plane near the screw fixing piece.

6. The outdoor machine of the air conditioner according to any one of claims 1 to 5,

wherein the prop front plane connects the upper end portions of the props to each other,

wherein the prop horizontal plane protrudes to the rear side from the upper

end portion of the prop front plane, and

wherein the rear end of the prop horizontal plane is provided with an upper end fixing part to fix the upper end portion of the heat exchanger.