CLAIMS

[Claim 1]

A refrigerator comprising:

a box body provided with an outer box and an inner box, between which heat insulation material is provided;

a drawer compartment provided in the inner box and having an opening at a front of the drawer compartment; and

a door configured to open and close the opening of the drawer compartment when moved forwards and backwards, respectively, the door including

a main handle provided on an upper side, and

a sub handle provided on a lower side,

wherein the door is made up of a top plate, a bottom plate, a back plate, a front plate and side plates, the main handle is provided at the top plate, and the sub handle is provided at the bottom plate,

wherein two doors each provided as the door are disposed vertically adjacent to each other,

wherein the sub handle of an upper one of the two doors and the main handle of a lower one of the two doors are located to face each other,

wherein a length of the sub handle of the upper door in a depth direction thereof is smaller than a depth of the main handle of the lower door in a depth direction thereof, and

wherein a height of an opening between the sub handle of the upper door and the main handle of the lower door is greater than or equal to the length of the sub handle in the depth direction.

[Claim 2]

The refrigerator of claim 1, wherein

a length of the sub handle of the upper door in a width direction thereof is smaller than a length of the main handle of the lower door in a width direction thereof.

[Claim 3]

The refrigerator of claim 1 or 2, wherein the sub handle is shaped to have a recess which is recessed upwards from the bottom plate.

[Claim 4]

The refrigerator of any one of claims 1 to 3, wherein a depth of the recess of the sub handle of the upper door from the bottom plate is smaller than a depth of a recess of the main handle of the lower door from the top plate.

[Claim 5]

The refrigerator of any one of claims 1 to 4, wherein the door includes

a rectangular vacuum heat insulation material,

an upper rib provided at the top plate and configured to support the vacuum heat insulation material, and

a lower rib provided at the bottom plate and configured to support the vacuum heat insulation material.

[Claim 6]

The refrigerator of claim 5, wherein lengths of the upper rib and the lower rib in the width direction are smaller than a length of the vacuum heat insulation material disposed in the door in the width direction.

[Claim 7]

The refrigerator of claim 5 or 6, wherein a sum of heights of the upper rib and the lower rib is smaller than a height of the vacuum heat insulation material provided in the door.

[Claim 8]

The refrigerator of any one of claims 5 to 7, wherein the upper rib and the lower rib are provided closer to the back plate than the main handle and the sub handle.

[Claim 9]

The refrigerator of any one of claims 5 to 8, wherein space between the front plate and the vacuum heat insulation material and space between the back plate and the vacuum heat insulation material are filled with foam heat insulation material.

[Claim 10]

The refrigerator of any one of claims 5 to 9, wherein the upper and lower ribs are provided such that a plurality of the upper ribs or lower ribs are provided.

[Claim 11]

The refrigerator of any one of claims 5 to 10, wherein the vacuum heat insulation material is inclined relative to a direction perpendicular to the bottom plate.