[0007]

A refrigerator according to an embodiment of the present invention includes: a body having a front opening; a hinge provided on a side face of the body; and a pivoting door pivoted on the hinge and configured to cover the front opening in such a manner that the pivoting door freely opens or closes, wherein the pivoting door includes an outer face member that is a reinforced glass or a resin constituting a front face of the pivoting door and having a flat plate shape, an inner face member constituting a back face of the pivoting door, a heat insulator filling a gap between the outer face member and the inner face member, a frame-shaped cap made of a resin and attached to four sides of each of the outer face member and the inner face member, a reinforcing member made of a metal and reinforcing a side face of the frame-shaped cap, a hinge bearing member pivoted on the hinge, and a sheet metal attached to an upper portion of a lower side of the frame-shaped cap, and fixing the hinge bearing member to the frame-shaped cap, the reinforcing member has an L shape and includes a first hook which projects in an opposite direction of the long side in a longitudinal end of a short side of the reinforcing member, the first hook is disposed at a location at which the first hook overlaps the sheet metal in front view, and the first hook being arranged at a location at which the first hook is held by the sheet metal in side view of the location at which the first hook overlaps the sheet metal.

Advantageous Effects of Invention

[0008]

In a refrigerator according to an embodiment of the present invention, even if a pivoting door is opened or closed with a member of the pivoting door being damaged, a hook of a reinforcing member comes into contact with a sheet metal and is hooked on the sheet metal when the pivoting door is falling off forward. Accordingly, falling off of the pivoting door can be inhibited.

CLAIMS

[Claim 1]

A refrigerator comprising:

a body having a front opening;

a hinge provided on a side face of the body; and

a pivoting door pivoted on the hinge and configured to cover the front opening in such a manner that the pivoting door freely opens or closes,

the pivoting door including

an outer face member that is a reinforced glass or a resin having a flat plate shape and constituting a front face of the pivoting door,

an inner face member constituting a back face of the pivoting door,

a heat insulator filling a gap between the outer face member and the inner face member,

a frame-shaped cap made of a resin and attached to four sides of each of the outer face member and the inner face member,

a reinforcing member made of a metal and reinforcing a side face of the frame-shaped cap,

a hinge bearing member pivoted on the hinge, and

a sheet metal attached to an upper portion of a lower side of the frame-shaped cap, and fixing the hinge bearing member to the frame-shaped cap,

the reinforcing member having an L shape formed by a long side and a short side and including a first hook which projects in an opposite direction of the long side in a longitudinal end of the short side,

the first hook being disposed at a location at which the first hook overlaps the sheet metal in front view,

the first hook being arranged at a location at which the first hook is held by the sheet metal in side view of the location at which the first hook overlaps the sheet metal.

[Claim 2]

The refrigerator of claim 1, wherein

the sheet metal has a U-shape in the side view, and

the first hook is located between both ends of the sheet metal.

[Claim 3]

The refrigerator of claim 1 or 2, wherein

the hinge bearing member is housed in a hollow portion formed in an end of the lower side of the frame-shaped cap, and

the short side and the first hook of the reinforcing member are disposed so as to cover the hollow portion.

[Claim 4]

The refrigerator of any one of claims 1 to 3, wherein the reinforcing member including a second hook in a lateral end of the short side.

[Claim 5]

The refrigerator of claim 4, wherein the second hook has a hole.

[Claim 6]

The refrigerator of any one of claims 1 to 5, wherein a hard material is bonded to a back surface of the outer face member.

[Claim 7]

The refrigerator of any one of claims 1 to 6, wherein a material whose color changes upon application of a pressure is bonded to a back surface of the outer face member.