[0004]

Patent Literature 1: Japanese Unexamined Patent Application Publication No. 62-98181

Summary of Invention

Technical Problem

[0005]

To obtain the above refrigerator, a cover is necessary for fixing the decorative plate to the front face of the door, and a process of screwing the cover to the door frame is therefore necessary. Moreover, the above configuration is not applicable to a case where the front plate to be attached to the frame component is a plate such as a glass plate that is thicker than a steel plate and has no inwardly folded edge projection at its periphery.

[0006]

The present disclosure seeks to solve the above problems and provide a door of a refrigerator that includes a single frame component configured to receive both a glass face plate and a steel plate, either of which can serve as a front plate to be fixed to the frame component, while the increase in the number of components can be limited.

Solution to Problem

[0007]

A refrigerator according to an embodiment of the present disclosure includes a refrigerator body having a compartment inside, and a refrigerator door with which the compartment of the refrigerator body is opened and closed. The refrigerator door includes a door frame, a rear plate, and a front plate. The door frame includes an upper cap, a lower cap, a right cap, and a left cap. The lower cap includes a cap body that is plate-shaped and forms a lower face of the refrigerator door, a front rib that is provided on an upper face of the cap body and extends upward, and a recess that is provided between the front rib and the cap body and where the front plate is nipped. A front face of the front rib serves as a bonding surface to which the front plate is bonded. The front rib is offset rearward from a

front end of the cap body by a length over which the cap body is able to support the front plate. A portion of the upper face of the cap body that is located further forward than the front rib serves as a supporting surface. When the front plate is made of a steel plate material, the front plate includes an end portion that is located at a lower portion of the front plate and is folded rearward, the end portion being inserted in the recess. When the front plate is made of a glass plate, a lower end face of the front plate is supported by the supporting surface and a rear face of the front plate is joined to the bonding surface.

[0007a]

A refrigerator according to another embodiment of the present disclosure includes a refrigerator body having a compartment inside, and a refrigerator door with which the compartment of the refrigerator body is opened and closed. The refrigerator door includes a door frame, a rear plate, and a front plate. The door frame includes an upper cap, a lower cap, a right cap, and a left cap. The right cap includes a right-cap body, a corner portion, and a front rib, the right-cap body forming a right face of the door frame, the corner portion being continuous with the right-cap body and being located at a front of the right-cap body, the front rib extending leftward from a left face of the corner portion. The right cap includes a recess that is provided between the corner portion and the front rib and where the front plate is nipped. A front face of the front rib serves as a bonding surface to which the front plate is bonded. The front rib is located rearward from a front face of the corner portion. The corner portion has a supporting portion protecting the front plate, the supporting portion being located further forward than the front rib. When the front plate is made of a steel plate material, the front plate includes an end portion that is located at a right side of the front plate and is folded rearward, the end portion being inserted in the recess. When the front plate is made of glass, the supporting portion covers a right end face of the front plate and a rear face of the front plate being joined to the bonding surface.

Advantageous Effects of Invention

[0008]

According to an embodiment of the present disclosure, while the increase in the number of components is limited, the door frame, which is provided as a single frame component, is configured to receive a front plate made of a glass face plate

and a front plate made of a steel plate material, either of which is to be fixed to the door frame.

Brief Description of Drawings

[0009]

[Fig. 1] Fig. 1 is a front view of a refrigerator according to Embodiment 1 of the present disclosure.

[Fig. 2] Fig. 2 is a sectional view of the refrigerator according to Embodiment 1 of the present disclosure.

[Fig. 3] Fig. 3 illustrates a configuration of a refrigerator-compartment left door and a refrigerator-compartment right door according to Embodiment 1 of the present disclosure.

[Fig. 4] Fig. 4 is a perspective view of a left cap and a lower cap included in the refrigerator-compartment right door according to Embodiment 1 of the present disclosure.