A refrigerator-freezer according to an embodiment of the present disclosure includes a refrigerator body having an opening and having a storage compartment formed in the opening, two doors arranged side by side at the opening and configured to be opened and closed, and a divider extending along a gap between the two doors and configured to close the gap at the storage compartment. The divider includes a surface part facing the doors and a heater unit having a cord-like heater disposed from one end to the other end of the surface part. The heater includes a heat generating unit configured to generate heat by passage of electricity and a basic insulating layer covering the heat generating unit. The heater unit includes a heat shield covering the heater disposed in the surface part. The heat shield is provided with margins protruding from a heater pattern of the heater at ends of the divider and folded back toward a middle.

A refrigerator-freezer according to another embodiment of the present disclosure includes a refrigerator body having an opening and a storage compartment formed in the opening, two doors arranged side by side at the opening and configured to be opened and closed, and a divider extending along a gap between the two doors and configured to close the gap at the storage compartment. The divider includes a surface part facing the doors, and a heater unit having a cordlike heater disposed from one end to an other end of the surface part. The heater includes a heat generating unit configured to generate heat by passage of electricity, and a basic insulating layer covering the heat generating unit. Two or more additional insulating layers are provided between the basic insulating layer and the surface part. The heater unit includes a heat shield covering the heater disposed in the surface part. The heat shield is provided with margins protruding from a heater pattern of the heater at ends of the divider and folded back toward a middle.

A refrigerator-freezer according to another embodiment of the present disclosure includes a refrigerator body having an opening and a storage compartment formed in the opening, two doors arranged side by side at the opening and configured to be opened and closed,

and a divider extending along a gap between the two doors and configured to close the gap at the storage compartment. The divider includes a surface part facing the doors, and a heater unit having a cordlike heater disposed from one end to an other end of the surface part. The heater includes a heat generating unit configured to generate heat by passage of electricity, and a basic insulating layer covering the heat generating unit. Two or more additional insulating layers are provided between the basic insulating layer and the surface part. The heater unit includes a heat shield covering the heater disposed in the surface part. The heat shield is provided with margins protruding from a heater pattern of the heater at ends of the divider and folded back toward a middle. The heater cover is configured to cover covering the heater unit disposed in the surface part. The heater cover has heater pressers extending inward to sandwich ends of the heater while forming preset gaps between ends of the heater cover and the surface part. The heater pressers are formed at the ends of the heater cover.

A refrigerator-freezer according to another embodiment of the present disclosure includes a refrigerator body having an opening and a storage compartment formed in the opening, two doors arranged side by side at the opening and configured to be opened and closed, and a divider extending along a gap between the two doors and configured to close the gap at the storage compartment, and gaskets configured to bring the doors and the surface part into close contact with each other when the doors are closed. The divider includes a heater unit having a cord-like heater disposed from one end to an other end of the surface part. The heater includes a heat generating unit configured to generate heat by passage of electricity, and a basic insulating layer covering the heat generating unit. The heater unit includes a heat shield covering the heater disposed in the surface part. Two or more additional insulating layers are provided between the basic insulating layer and the surface part. The gaskets include fin parts covering gaps between edges of a frontage of the storage compartment and ends of the divider. The heater extends to overlapped regions of the surface part overlapped with the fin parts.

Advantageous Effects of Invention

[0008]

The refrigerator-freezer according to the embodiment of the present disclosure allows the heater inside the divider to have an insulating coating structure composed of one basic insulating layer and two or more additional insulating layers, thereby making it possible to increase the degree of freedom of a heater pattern by thinning the heater and route the heater to the ends of the divider. This makes it possible to raise the temperature at the ends of the divider and, while suppressing a rise in passage rate, reduce dew condensation at the ends of the divider.

Brief Description of Drawings

[0009]

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

[Fig. 2] Fig. 2 is an upper perspective view showing an open state of a right door in a region R1 of Fig. 1.

[Fig. 3] Fig. 3 is a sectional view showing a section taken along line A-A in Fig. 1.

[Fig. 4] Fig. 4 is an exploded perspective view showing a structure of a divider according to Embodiment 1 of the present disclosure.

[Fig. 5] Fig. 5 is a sectional view showing a state where a heater unit according