CLAIMS

[Claim 1]

A refrigerator comprising:

an outer box forming an exterior of the refrigerator;

an inner box provided in the outer box, and forming a storage;

a first vacuum heat insulating material provided in a space provided between the outer box and the inner box;

a foam heat insulating material filled into the space; and

a heat insulating partition portion provided in the inner box, and partitioning the inner box into storage compartments that are different in temperature zone from each other,

wherein the heat insulating partition portion includes

a second vacuum heat insulating material provided along a surface that partitions the inner box, and

a covering portion covering the second vacuum heat insulating material, and including

a first covering portion covering one surface of the second vacuum heat insulating material, and

a second covering portion joined to the first covering portion, and covering an other surface of the second vacuum heat insulating material,

wherein at a covering surface of at least one of the first covering portion and the second covering portion, a projecting portion, a recessed portion, and a flat portion are formed, the covering surface facing the second vacuum heat insulating material, the projecting portion being contact with the second vacuum heat insulating material, the recessed portion recessed toward an opposite side of a side on which the second vacuum heat insulating material is located, the flat portion projecting toward the second vacuum heat insulating material,

wherein at a surface of the recessed portion, resin injection gates are provided, and

wherein at the flat portion, an adhesive member is provided to join the first covering portion or the second covering portion and the second vacuum heat insulating material.

[Claim 2]

The refrigerator of claim 1, wherein at the covering surface, the recessed portion is formed in a cross shape.

[Claim 3]

The refrigerator of claim 1 or 2, wherein

the projecting portion has a polygonal shape, and

a plurality of projecting portions including the projecting portion are provided at the covering surface.

[Claim 4]

The refrigerator of any one of claims 1 to 3, wherein ribs are provided throughout an outer surface of the second covering portion that is located opposite to the covering surface of the second covering portion.

[Claim 5]

The refrigerator of any one of claims 1 to 4, further comprising

a partition portion partitioning one of the storage compartments partitioned off by the heat insulating partition portion in the inner box into storage compartments in which temperature zones differ from each other,

wherein the heat insulating partition portion further includes a partition fixing portion that is configured to fix the partition portion, and is provided at an outer surface of the first covering portion that is located opposite to the covering surface of the first covering portion.