CLAIMS

1. A refrigerator comprising:

a refrigerator body constituted by a heat insulating box filled with a heat insulator and provided with an opening,

the refrigerator body comprising:

a refrigeration cycle in which a compressor, a condenser, an expanding device, and a cooler are connected by a pipe and which circulates a refrigerant in the pipe; and

blowing means that blows out a cold air generated in the cooler, wherein

each of an almost entire surface of a fin of the cooler and an almost entire outer surface of a heat transfer tube to the cooler is formed with a plurality of pores,

each of the plurality of pores has

an equivalent diameter or a shortest side length of 100 nm to 0.1 mm and a distance of 20 nm to 100 nm to an adjacent pore, that are set so that droplets with an equal size are generated on the surface of the fin and the outer surface of the heat transfer tube, and

a depth of not less than 10 μm, that is set so that the fin and the heat transfer tube retain a high content of water, and

the heat insulating box includes, at a position opposite to the cooler, a depressed portion formed to have a

capacity with a ratio of 1% to 0.5% to a capacity of the cooler.

2. The refrigerator of claim 1, wherein the pores are formed by applying anodization treatment on the fin or the heat transfer tube.

CLAIMS

1. A refrigerator comprising:

a refrigeration cycle which is configured in such a way that a refrigerator body constituted by a heat insulating box filled with a heat insulator and provided with an opening is connected with a compressor, a condenser, an expanding device, and a cooler by a pipe and a refrigerant is made to circulate in the pipe, and

blowing means that blows out a cold air generated in said cooler, wherein

an almost entire surface of a fin or a heat transfer tube of the cooler is formed with a plurality of pores.

2. The refrigerator of claim 1, wherein the capacity of a depressed portion provided between the cooler and the heat insulating box is 1% to 0.5% of the capacity of the cooler.

3. The refrigerator of claim 1 or 2, wherein the pores are arranged at a distance of 20 to 100 nm from the adjacent pores.

4. The refrigerator of any one of claims 1 to 3, an equivalent diameter or a shortest side length of the pore is 100 nm to 0.1 mm.

5. The refrigerator of any one of claims 1 to 4, wherein the pores are formed by applying anodization treatment on the fin or the heat transfer tube.