CLAIMS

[Claim 1] A door opening device comprising:

a main body having an opening face;

a door pivoted on the main body with a pivot shaft, the door opening and closing the opening face;

a rotary member arranged on the main body, the rotary member rotating about a rotary shaft;

a slider arranged on the rotary member; and

a cam surface arranged on the door, the cam surface guiding the slider,

the slider sliding between a start point and an end point on the cam surface and thereby opening the door,

wherein

at the end point, a tangent line to the cam surface is inclined with respect to a movement direction of the slider and the slider rotates in a direction away from the pivot shaft,

at the end point, an inclination angle of the tangent line to the cam surface with respect to the movement direction of the slider is 45 degrees or more.

[Claim 2] The door opening device according to claim 1, wherein

an angle formed by a straight line connecting between the rotary shaft and the slider at the end point and a straight line connecting between the pivot shaft and the slider at the end point is a right angle or an obtuse angle.

[Claim 3] The door opening device according to any one of claims 1 or 2, wherein

at the front face of the main body, two of the doors are arranged side by side in a left-right direction and the pivot shafts of the doors are respectively arranged at opposite end parts of the main body, and

one door is opened with forward rotation of one rotary member and an other door is opened with reverse rotation of the one rotary member.

[Claim 4] The door opening device according to claim 3, wherein

on one of top and bottom faces of the door, the cam surface is arranged and a concave part is formed, and

the concave part is arranged frontward of the cam surface and is open to face the neighboring door.

[Claim 5] The door opening device according to claim 4, wherein

a plurality of the sliders are provided on the rotary member.

[Claim 6] A refrigerator comprising:

the door opening device according to any one of claims 1 to 5,

wherein

the slider is arranged on a top face of the main body, and

the cam surface is arranged on a top face of the door.