pawls and such that their surfaces that make contact with the ratchet pawls on the outer cap side when the safety cap is rotated in a direction in which the safety cap is taken off from the container are inclined.

[0004]

When the outer cap is rotated in the direction in which the safety cap is tightened on the container, the ratchet pawls having a flat plate shape are engaged with the perpendicular surfaces of the ratchet teeth so as to rotate the inner cap together. This allows the female screw of the inner cap to be tightened on a male screw of the container. Meanwhile, when the outer cap is just rotated in the direction in which the safety cap is taken off from the container, the outer cap just spins as the ratchet pawls slip on the inclined surfaces of the ratchet teeth. It is therefore possible to prevent the safety cap from being carelessly taken off. It is necessary to rotate the outer cap while pressing down the outer cap in order to take off the safety cap from the container. Patent Document 1 describes that infants are incapable of executing such an operation correctly, and therefore a child-resistant function can be realized (paragraph 0004).

PRIOR ART DOCUMENTS

PATENT DOCUMENTS

[0005]

Patent Document 1: JP 4844807 B1

SUMMARY OF THE INVENTION

~~PROBLEMS TO BE SOLVED BY THE INVENTION~~

[0006]

The conventional safety cap of Patent Document 1 has a following problem. Specifically, a corner of each of the ratchet pawls having a flat plate shape is engaged with one point of an inclined surface of a corresponding ratchet tooth. Accordingly, when a pressing force is accidentally applied to the outer cap, there are cases where a surprisingly large rotational force in an opening direction is applied to the inner cap. In this case, there is a risk of mistakenly opening the cap.

[0007]

The present invention was accomplished in view of the above problems of the conventional safety cap, and an object of the present invention is to provide a safety cap whereby a child-resistant function can be improved.

~~SOLUTIONS TO THE PROBLEMS~~

[0008]

The configuration of the present invention is a safety cap comprising: a screw-type inner cap detachably mounted on a mouth of a container; and an outer cap that is combined with the inner cap so as to be rotatable relative to the inner cap, each of the inner cap and the outer cap having a plurality of engaging protuberances, the engaging protuberances of the inner cap and the engaging protuberances of the outer cap being engaged with each other and rotating the inner cap when the outer cap is rotated while being pressed toward the inner cap, each of the engaging protuberances having a vertical part that is engaged when the outer cap is rotated in a closing direction and