[CLAIMS]

[Claim 1]

A double-capping detection device characterized in that

on a production line of a product in which an opening of a container is sealed with a cap,

a proximity sensor is provided along a path on which the container moves;

an area detected by the proximity sensor is an area where the cap cannot be present in a normal state, the two caps are attached to the one container continuously, and a subsequent cap can be brought into close contact with a container surface; and

the container to which the two caps are attached in a row is detected by the proximity sensor.

[Claim 2]

The double-capping detection device according to claim 1, wherein

the proximity sensor is provided in an area where the container rotates in the path on which the container is conveyed.

[Claim 3]

The double-capping detection device according to claim 1 or 2, wherein

the proximity sensors are provided in plural along the path on which the container is conveyed and the sensors are provided within an area a dimension of which is substantially the same as an outer peripheral dimension of the container.

[Claim 4]

A double-capping detection device characterized in that

on a production line of a product in which an opening of a container is sealed with a cap,

a sensor including a transmitter and a receiver is provided along a path on which the container moves;

an area detected by the sensor is an area where the cap cannot be present in a normal state, the two caps are attached to the one container continuously, and the subsequent cap is separated from the container surface and is turned over, and

the container to which the two caps are attached in a row is detected by the sensor.

[Claim 5]

The double-capping detection device according to claim 4, wherein

the sensor is provided in an area where the container rotates in the path on which the container is conveyed or an area downstream of an area for rotating the container.

[Claim 6]

The double-capping detection device according to claim 4 or 5, wherein

the sensor is a transmission sensor.

[Claim 7]

A double-capping detection device characterized in that

on a production line of a product in which an opening of a container is sealed with a cap,

two types of sensors, that is, a proximity sensor and a sensor including a transmitter and a receiver are provided

along a path on which the container moves;

an area detected by the sensors is an area where the cap cannot be present in a normal state, and the subsequent cap can be present in a case where the two caps are attached to the one container continuously, and

the container to which the two caps are attached in a row is detected by the two types of sensors.

[Claim 8]

The double-capping detection device according to claim 7, wherein

the proximity sensor is provided in an area where the container rotates in the path on which the container is conveyed.

[Claim 9]

The double-capping detection device according to claims 7 or 8, wherein

the proximity sensors are provided in plural along the path on which the container is conveyed and the sensors are provided within an area a dimension of which is substantially the same as an outer peripheral dimension of the container.

[Claim 10]

The double-capping detection device according to any one of claims 7 to 9, wherein

the sensor is provided in an area where the container rotates in the path on which the container is conveyed or an area after the rotating operation.

[Claim 11]

The double-capping detection device according any one of claims 7 to 10, wherein

the sensor is a transmission sensor.