[0005]

[Patent Literature 1]

Japanese Patent Laid-Open No. 2008-140019

[Summary of Invention]

[Technical Problem]

[0006]

However, it is essentially undesirable that security persons (such as guards) who are outsider for a security object can freely cancel the security of the security object (can set the security release mode). For example, assume the case where a security person comes to a security object and sets the security release mode while no user is present in the security object. In this case, even though the security object is unmanned (no user is present), the security object is left unguarded (left in the state where abnormal circumstances, such as invasion of the security object, cannot be detected) after the security person leaves the security object.

[0007]

~~The present invention has been made in view of the above-mentioned problem, and it is therefore an object~~Embodiments of the present invention seek to provide a security device that can appropriately limit shifting to an essentially undesirable operational mode.

[Solution to Problem]

from the inspection mode in accordance with the operational mode set before the inspection mode is set.

[0008a]

Another aspect of the present invention provides a security system, comprising:

a security device capable of setting a security set mode for sending a report upon reception of a detection signal from a security sensor provided in a security object and a security release mode for sending no report upon reception of the detection signal from the security sensor; and

a center device configured to communicate with the security device, wherein

the security device comprises:

a storage unit having users registered in advance as a registered user, the users being privileged to perform operational input of the security device;

a checking unit configured to check whether or not a user who performs operational input of the security device is the registered user registered in the storage unit; and

a mode setting unit configured to set an operational mode to the security release mode or the security set mode in response to the operational input by the checked user,

the registered users include a security person of the security object, and

when the user who performs the operational input is the security person, the mode setting unit sets the operational mode to an inspection mode indicating the security person is inspecting in response to the operational input of the security person, and

when an inspection end signal is received from the center device while the inspection mode is set, the mode setting unit limits the operational modes shiftable from the inspection mode in accordance with the operational mode set before setting the inspection mode.

[0008b]

Another aspect of the present invention provides a security system, comprising:

a security device capable of setting a security set mode for sending a report upon reception of a detection signal from a security sensor provided in a security object and a security release mode for sending no report upon reception of the detection signal from the security sensor; and

a center device configured to communicate with the security device, wherein

the security device comprises:

a storage unit having users registered in advance as a registered user, the users being privileged to perform operational input of the security device;

a checking unit configured to check whether or not a user who performs operational input of the security device is the registered user registered in the storage unit; and

a mode setting unit configured to set an operational mode to the security release mode or the security set mode in response to the operational input by the checked user, and

when an inspection start signal is received from the center device, the mode setting unit sets the operation mode to an inspection mode indicating a security person of the security object is inspecting, and

when an inspection end signal is received from the center device while the inspection mode is set, the mode setting unit limits the operational modes shiftable from the inspection mode in accordance with the operational mode set before setting the inspection mode.

[0008c]

Another aspect of the present invention provides a security mode setting method in a security device capable of setting a security set mode for sending a report upon reception of a detection signal from a security sensor provided in a security object, and a security release mode for sending no report upon reception of the detection signal from the security sensor, the method comprising:

registering users privileged to perform operational input of the security device as a registered user in advance;

checking whether or not a user who performs operational input of the security device is the registered user;

setting an operational mode to the security release mode or the security set mode in response to the operational input by the checked user;

when the user who performs the operational input is a security person of the security object, setting the operational mode to an inspection mode indicating the security person is inspecting in response to the operational input by the security person; and

when the operational input is performed by the security person while the inspection mode is set, limiting the operational modes shiftable from the inspection mode in accordance with the operational mode set before the inspection mode is set.

[0009]

As described in the following, the present invention includes other aspects. Therefore, disclosure of the present invention is intended to provide part of the aspects of the present invention and is not intended to limit the scope of the invention disclosed and claimed herein.

[Brief Description of Drawings]

[0010]

[Figure 1] Figure 1 is a block diagram illustrating a security device in an embodiment of the present invention.

[Figure 2] Figure 2 is a transition diagram of operational modes in the embodiment of the present invention.

[Figure 3] Figure 3 is a flow chart of operation (basic operation) of the security device in the embodiment of the present invention.

[Figure 4] Figure 4 is a flow chart of setting the operational modes of the security device in the embodiment of the present invention.

[Figure 5] Figure 5 is a flow chart of setting the operational modes of the security device in the embodiment of the present invention.