WHAT IS CLAIMED IS:

1. A security check system for identifying objects of interest from multiple objects with no use of physical tags, comprising:

an object-of-interest determining device for determining whether an object is an object of interest;

an image mark applying device for acquiring images related to selected objects among the multiple objects and recording image marks of the selected objects; and

a mark detecting device for detecting the image marks,

wherein the security check system is configured to identify whether the object is the object of interest based on the detection of the mark detecting device and to provide a warning accordingly.

2. The security check system according to claim 1, wherein

the selected objects comprise all objects or objects which are determined to be the objects of interest, and

the security check system is configured to identify whether the object is the object of interest based on the detected image mark and to provide a warning if the object is identified as the object of interest based on the image mark.

3. The security check system according to claim 1 or 2, wherein

the image mark is an image feature of the object and/or an image feature of a person carrying the object.

4. The security check system according to claim 1 or 2, wherein

the image mark applying device is configured to acquire the image related to the object before the object is fetched by a person and/or when the object is being fetched by a person.

5. The security check system according to claim 4, wherein

the image mark applying device is configured to acquire an image of the object and/or an image of the person fetching the object.

6. The security check system according to claim 1 or 2, wherein

the selected objects among the multiple objects comprise objects which are determined not to be the objects of interest, and

the mark detecting device is configured to identify the object as the object of interest and provide a warning if no recorded image mark is detected.

7. A security check method for identifying objects of interest among multiple objects with no use of physical tags, comprising:

determining whether an object is an object of interest;

acquiring images related to selected objects among the multiple objects and recording image marks of the selected objects; and

detecting the image marks, identifying whether the object is the object of interest based on the detection, and providing a warning accordingly.

8. The security check method according to claim 7, wherein

the selected objects comprise all objects or objects which are determined to be the objects of interest, and

it is identified whether the object is the object of interest based on the detected image mark, and wherein a warning is provided if the object is identified as the object of interest based on the image mark.

9. The security check method according to claim 7 or 8, wherein

the image mark is an image feature of the object and/or an image feature of a person carrying the object.

10. The security check method according to claim 7 or 8, wherein

the image related to the object is acquired before the object is fetched by a person and/or when the object is being fetched by a person.

11. The security check method according to claim 10, wherein

the step of acquiring the image related to the object comprises acquiring an image of the object and/or an image of the person fetching the object.

12. The security check method according to claim 7 or 8, wherein

the selected objects among the multiple objects comprise objects which are determined not to be the objects of interest, and

the object is identified as the object of interest and a warning is provided if no recorded image mark is detected.

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