

Claims

- [Claim 1] An image management device comprising:
an image acquiring unit configured to acquire an image of a sheet on which a medium that presents an identification image including identification information is to be placed, the sheet including a user image that is presented by a user and attribute information for moving the user image;
a first identification-information acquiring unit configured to acquire the identification information from the image acquired by the image acquiring unit;
an image extracting unit configured to extract the user image from the image acquired by the image acquiring unit;
a second identification-information acquiring unit configured to acquire the identification information from the medium alone; and
a managing unit configured to store the user image in association with the identification information in a first storage unit, and acquire, from the first storage unit, a user image such that the identification information associated with the user image matches the identification information acquired by the second identification-information acquiring unit, among the user images that are stored in the first storage unit.
- [Claim 2] The image management device according to claim 1, wherein the identification information includes generation time information that indicates a time when the identification information is generated.
- [Claim 3] The image management device according to claim 1 or 2, wherein the managing unit generates a first area in the first storage unit in accordance with the identification information, generates a second area in the first area in accordance with acquisition time information that indicates a time when the image acquiring unit acquires the image of the sheet, and stores, in the second area, the user image associated with the identification information.
- [Claim 4] The image management device according to any one of claims 1 to 3, wherein the sheet further includes an attribute information image corresponding to attribute information that indicates an attribute of the user image,
the image extracting unit further extracts the attribute information

image from the image acquired by the image acquiring unit, and the managing unit acquires the attribute information from the attribute information image extracted by the image extracting unit, and stores, in the first storage unit, the identification information and a combination of the attribute information and the user image in association with each other.

[Claim 5] The image management device according to any one of claims 1 to 4, further comprising a presentation control unit configured to control presentation of the user image, wherein the managing unit stores, in the second storage unit, a user image such that the identification information associated with the user image matches the identification information acquired by the second identification-information acquiring unit, and the presentation control unit controls presentation of the user image stored in the second storage unit.

[Claim 6] The image management device according to claim 5, wherein, when the number of user images stored in the second storage unit exceeds a predetermined number, the managing unit deletes, from the second storage unit, a user image that is stored at an earliest time among the user images that are stored in the second storage unit.

[Claim 7] The image management device according to claim 6, wherein the managing unit counts the number of user images stored in the second storage unit, except for a user image that meets a predetermined condition.

[Claim 8] The image management device according to any one of claims 1 to 7, wherein the managing unit stores, as log information, use information that includes at least the identification information acquired by the second identification-information acquiring unit, and time information that includes a date and a time when the identification information is acquired.

[Claim 9] The image management device according to claim 8, wherein, when the second identification-information acquiring unit acquires the identification information, the managing unit extracts first use information with the matching identification information from the use information that is included in the log information, and further extracts second use information with the date, included in the time information,

- matching a date of a current day from the first use information.
- [Claim 10] The image management device according to claim 9, wherein the managing unit compares the number of pieces of the second use information with a predetermined number, and performs an operation in accordance with a comparison result.
- [Claim 11] The image management device according to claim 10, wherein when the number of pieces of the second use information is less than the predetermined number, the managing unit extracts, from the second storage unit, the user image corresponding to the identification information included in the second use information, and the presentation control unit changes presentation of the user image corresponding to the identification information included in the second use information extracted by the managing unit.
- [Claim 12] The image management device according to any one of claims 1 to 11, further comprising a third storage unit configured to store addition-operation information in association with addition-operation identification information, wherein when the identification information acquired by the second identification-information acquiring unit includes the addition-operation identification information, the managing unit acquires, from the third storage unit, the addition-operation information associated with the addition-operation identification information.
- [Claim 13] The image management device according to any one of claims 1 to 12, further comprising a sound detecting unit configured to acquire a sound and detect a pattern of the acquired sound, wherein the first storage unit further stores pattern information indicating the pattern of a sound, in association with the user image, and when the first storage unit stores the pattern information corresponding to the pattern detected by the sound detecting unit, the managing unit acquires, from the first storage unit, the user image associated with the pattern information.
- [Claim 14] An image management method comprising:
acquiring an image of a sheet on which a medium that presents an identification image including identification information is to be placed, the sheet including a user image that is presented by a user and attribute information for moving the user image;

acquiring the identification information from the acquired image;
 extracting the user image from the acquired image;
 acquiring the identification information from the medium alone;
 storing the user image in association with the identification information
 in a first storage unit; and
 acquiring, from the first storage unit, a user image such that the
 identification information associated with the user image matches the
 acquired identification information, among the user images that are
 stored in the first storage unit.

[Claim 15]

A computer-readable recording medium with an executable program
 stored thereon, wherein the program causes a computer to execute:
 acquiring an image of a sheet on which a medium that presents an
 identification image including identification information is to be placed,
 the sheet including a user image that is presented by a user and attribute
 information for moving the user image;
 acquiring the identification information from the acquired image;
 extracting the user image from the acquired image;
 acquiring the identification information from the medium alone;
 storing the user image in association with the identification information
 in a first storage unit; and
 acquiring, from the first storage unit, a user image such that the
 identification information associated with the user image matches the
 acquired identification information, among the user images that are
 stored in the first storage unit.

[Claim 16]

A presentation system comprising:
 an image acquiring unit configured to acquire an image of a sheet on
 which a medium that presents an identification image including
 identification information is to be placed, the sheet including a user
 image that is presented by a user and attribution information for
 moving the user image;
 a first identification-information acquiring unit configured to acquire
 the identification information from the image acquired by the image
 acquiring unit;
 an image extracting unit configured to extract the user image from the
 image acquired by the image acquiring unit;
 a second identification-information acquiring unit configured to acquire

the identification information from the medium alone; and
a managing unit configured to store the user image in association with the identification information in a first storage unit, and acquire, from the first storage unit, a user image such that the identification information associated with the user image matches the identification information acquired by the second identification-information acquiring unit, among the user images that are stored in the first storage unit; and
a presentation control unit configured to control presentation of the user image, wherein

the managing unit stores, in a second storage unit, the user image such that the identification information associated with the user image matches identification information acquired by the second identification-information acquiring unit, and

the presentation control unit controls presentation of the user image that is stored in the second storage unit.