CLAIMS

1. A location determination processing device comprising:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of an activity pattern of a person carrying the detection device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

2. A location determination processing device comprising:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information

related to temperature which are detected by a detection device and information related to altitude determined on a basis of a schedule of a person carrying the detection device and a time at which the detection is performed;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

3. A location determination processing device comprising:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of results of recognizing an activity of a person carrying the detection device;

an atmospheric pressure information accepting section that accepts information

related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

4. A location determination processing device comprising:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of an altitude of a location where a stationary information processing device is fixed if a person carrying the detection device has used the stationary information processing device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of

identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

5. A location determination processing device comprising:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of an altitude of a location where an entry and exit management device is installed when a person carrying the detection device passes through the entry and exit management device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a

correspondence between a level and an elevation of the level;

6. The location determination processing device according to any one of Claim 1, further comprising:

a computing result accepting section that accepts an altitude calculated based on the reference information accepted by the accepting section and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section;

a determination result accepting section that accepts a determination result of whether a difference exists between the level as the detection result accepted by the detection result accepting section is different from the level as the identification result accepted by the identification result accepting section; and

a correcting section that corrects the level accepted by the identification result accepting section using the level accepted by the detecting result accepting section if the determination result accepted by the determination result accepting section is that the difference exists,

wherein the identification result accepting section accepts a result that identifies a level corresponding to the level accepted by the computing result accepting section from a storing section that stores a correspondence between a level and an elevation of the level, and

the outputting section outputs the level corrected by the correcting section if the determination result accepted by the determination result accepting section is that the difference exists.

7. The location determination processing device according to Claim 6, wherein the correcting section corrects a function used for computation by the computing section that computes a computing result accepted by the computing result

accepting section if the determination result accepted by the determination result accepting section is that the difference exists, and

the computing section computes an altitude by using the function corrected by the correcting section.

8. The location determination processing device according to Claim 6, wherein the correcting section corrects the level identified by an identifying section that identifies the identification result accepted by the identification result accepting section to the level detected by a detecting section that detects the detection result accepted by the detection result accepting section if the determination result accepted by the determination result accepting section is that the difference exists.

9. The location determination processing device according to any one of Claims 6 to 8, wherein

the detecting section that detects the detection result accepted by the detection result accepting section detects whether the mobile information processing device has moved after the level is output by the outputting section; and

the computing section does not perform the computing if the detecting section detects that the mobile information device does not have moved.

10. The location determination processing device according to any one of Claims 6 to 8, wherein

the detecting section that detects the detection result accepted by the detection result accepting section detects whether the mobile information processing device has moved after the level is output by the outputting section; and

the correcting section corrects the level identified by the identifying section that identifies the identification result accepted by the identification result accepting section

using the level output by the outputting section if the detecting section detects that the mobile information device does not have moved.

11. The location determination processing device according to any one of Claims 6 to 10, wherein

the accepting section accepts a time at which the detection device or the other detection device detects an atmospheric pressure and a temperature; and

the computing section that computes the computing result accepted by the computing result accepting section computes an altitude by using the atmospheric pressure and the temperature accepted by the accepting section which are detected by the atmospheric pressure detecting section at a time within a predetermined time range after a time at which the atmospheric pressure detecting section detects the atmospheric pressure, the atmospheric pressure detecting section detecting the atmospheric pressure in the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section.

12. The location determination processing device according to any one of Claims 6 to 10, wherein

the accepting section accepts a plurality of atmospheric pressures, a plurality of temperatures, and a plurality of altitudes; and

the computing section that computes the computing result accepted by the computing result accepting section computes an altitude at a time when detection is performed by the atmospheric pressure detecting section, on a basis of an atmospheric pressure, a temperature, and an altitude that are respectively statistical representative values of the plurality of atmospheric pressures, the plurality of temperatures, and the plurality of altitudes accepted by the accepting section, and the atmospheric pressure detected by the atmospheric pressure detecting section.

13. The location determination processing device according to Claim 5, wherein the accepting section accepts reference information related to an altitude determined on a basis of a change in the atmospheric pressure detected by the atmospheric pressure detecting section of the detection device and the altitude of the location where the entry and exit management device is installed.

14. A location determining processing program for causing a computer to function as:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of an activity pattern of a person carrying the detection device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result

accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

15. A location determining processing program for causing a computer to function as:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of a schedule of a person carrying the detection device and a time at which the detection is performed;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

16. A location determining processing program for causing a computer to function as:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of results of recognizing an activity of a person carrying the detection device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

17. A location determining processing program for causing a computer to function as:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information related to temperature which are detected by a detection device and information related to altitude determined on a basis of an altitude of a location where a stationary information processing device is fixed if a person carrying the detection device has used the stationary information processing device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;

a detection result accepting section that accepts a detection result of detecting, on a basis of a status of an owner of the mobile information processing device, a level on which the owner is located; and

an outputting section that, if a level as the detection result accepted by the detection result accepting section is different from a level as the identification result accepted by the identification result accepting section, outputs a level corrected from the level accepted by the identification result accepting section using the level accepted by the detection result accepting section.

18. A location determining processing program for causing a computer to function as:

an accepting section that accepts reference information, the reference information including information related to atmospheric pressure and information

related to temperature which are detected by a detection device and information related to altitude determined on a basis of an altitude of a location where an entry and exit management device is installed when a person carrying the detection device passes through the entry and exit management device;

an atmospheric pressure information accepting section that accepts information related to atmospheric pressure for a location where an information processing device that is mobile exists;

an identification result accepting section that accepts an identification result of identifying a level corresponding to the altitude computed on a basis of the reference information and the information related to atmospheric pressure accepted by the atmospheric pressure information accepting section, from a storing section that stores a correspondence between a level and an elevation of the level;