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Corporation**, Tokyo (JP)(57) **ABSTRACT**(72) Inventors: **Keiichiro KUWATA**, Tokyo (JP);
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The authentication apparatus includes a communication unit which receives statistical information for a target transmitted from a sensor, the sensor having a measuring unit which measures environment information regarding surrounding environment of the target existing in a space and a statistics generation unit which generates, based on the environment information, the statistical information regarding the surrounding environment of the target, an authentication unit which authenticates, based on the statistical information, that the statistical information is information regarding the surrounding environment of the target, and an issuing unit which, when the statistical information has been authenticated by the authentication unit, issues an electronic certificate certifying that the statistical information authenticated is the statistical information for the target.

