~~What is claimed is:~~CLAIMS

1. An elevator diagnosis apparatus that performs a diagnosis based on a measurement value of a magnetic sensor installed on a landing side of a car, the elevator diagnosis apparatus comprising:

a floor determination unit that determines a car stop floor based on the measurement value;

an open/close button operation determination unit that determines an operation of an open button and a close button based on the measurement value; and

a usage status recording unit that records the operation of the open button and the close button in each floor.

2. The elevator diagnosis apparatus according to claim 1, wherein

the open/close button operation determination unit detects a door opening operation or a door closing operation based on a change direction of the measurement value, and the close button is determined to be operated when a time spent from a start of the door opening operation to a completion of the door closing operation is shorter than a predetermined standard time.

3. The elevator diagnosis apparatus according to claim 1, wherein

the open/close button operation determination unit detects a door opening operation or a door closing operation based on a change direction of the measurement value, and the open button is determined to be operated when a time spent from a start of the door opening operation to a completion of the door closing operation is longer than a predetermined standard time.

4. The elevator diagnosis apparatus according to claim 1, wherein

the open/close button operation determination unit detects a door opening operation or a door closing operation based on a change direction of the measurement value, and a movement of the door is determined to be reversed when the change direction of the measurement value is switched before a completion of the door closing operation.

5. The elevator diagnosis apparatus according to claim 1, wherein

the floor determination unit stores for each floor an initial value of the measurement value at closing the door, and a current car stop floor is determined by comparing the measurement value at present and the initial value for each floor.

6. The elevator diagnosis apparatus according to claim 1, further comprising a notification unit that transmits a usage status recorded in the usage status recording unit to an external control center.

~~7. An elevator diagnosis apparatus that performs a diagnosis based on a measurement value of a magnetic sensor installed on a landing side of a car, the elevator diagnosis apparatus comprising:a floor determination unit that determines a car stop floor based on the measurement value; and a failure determination unit that determines a failure based on the measurement value, wherein the failure determination unit determines that~~

~~when the measurement value with abnormality is found only in a specific floor, a failure exists in a device in a hoistway near a landing door of the specific floor, and~~

~~when the measurement value with abnormality is found in all floors, a failure exists in a device installed in the car.~~

~~8~~7. An elevator diagnosis method of performing a diagnosis based on a measurement value of a magnetic sensor installed on a landing side of a car, the elevator diagnosis method comprising:

determining a stop floor of the car based on the measurement value;

determining an operation of an open button and a

close button based on the measurement value; and

transmitting the operation of the open button and the close button in each floor to a control center.