CLAIMS

[Claim 1]

An image forming apparatus that is able to shift between a higher power state and a lower power state in which the power consumption in the lower power state is lower than the power consumption in the higher power state, the image forming apparatus comprising:

a human sensor for detecting a human around the image forming apparatus;

a button which receives a user operation for shifting the state of the image forming apparatus from the lower power state to the higher power state; and

a light emitting unit which is provided adjacent to the button; and

a controller which shifts the state of the image forming apparatus from the lower power state to the higher power state based on the human sensor detecting a human in a first detection region, and shifts the state of the image forming apparatus from the lower power state to the higher power state based on the user operation received by the button;

wherein the controller changes a light emitting state of the light emitting unit based on the human sensor detecting a human in a second detection region that includes a region which is more distant than the first detection region from the image forming apparatus.

[Claim 2]

The image forming apparatus according to Claim 1, wherein the controller performs control so that the light emitting unit blinks based on the human sensor detecting a human in the second detection region.

[Claim 3]

The image forming apparatus according to Claim 1,

wherein, on the basis that the human sensor detects a human in the second detection region, the controller performs control so that the light emitting unit emits light, and, on the basis that the human sensor detects a human in the first detection region, the controller performs control so that the light emitting unit stops emitting light.

[Claim 4]

The image forming apparatus according to Claim 1, wherein the controller performs control so that a brightness of the light emitting unit is changed little by little.

[Claim 5]

The image forming apparatus according to Claim 1, wherein the controller performs control so that a brightness of the light emitting unit increases as a human detected by the human sensor approaches the image forming apparatus.

[Claim 6]

The image forming apparatus according to Claim 1, wherein the image forming apparatus has at least one of a copy function, a print function, and a fax function.

[Claim 7]

The image forming apparatus according to Claim 1, wherein the human sensor is an infrared sensor.

[Claim 8]

The image forming apparatus according to Claim 7, wherein the infrared sensor is an infrared array sensor in which infrared sensors are arranged.

[Claim 9]

A method for controlling an image forming apparatus that includes a human sensor for detecting a human around the image forming apparatus, the method comprising:

a step of receiving, at a button, a user operation for shifting a state of the image forming apparatus from a lower power state to a higher power state, wherein a light emitting unit is provided adjacent to the button;

a step of shifting the state of the image forming apparatus from the lower power state to the higher power state based on the human sensor detecting a human in a first detection region;

a step of changing, based on the human sensor detecting a human in a second detecting region that includes a region which is more distant than the first detection region from the image forming apparatus, a light emitting state of the light emitting unit; and

a step of shifting, based on the user operation at the button, the state of the image forming apparatus from the lower power state to the higher power state.

[Claim 10]

An image forming apparatus comprising:

a human sensor;

an medium reader which reads, from a medium that stores identification information of a user who is to use the image forming apparatus, the identification information;

a light emitting unit which is provided adjacent to the medium reader; and

a controller which shifts the state of the image forming apparatus from the lower power state to the higher power state based on the human sensor detecting a human in a first detection region;

wherein the controller changes a light emitting state of the light emitting unit based on the human sensor detecting a

human in a second detection region that includes a region which is more distant than the first detection region from the image forming apparatus.

[Claim 11]

The image forming apparatus according to Claim 10, wherein the controller performs control so that a brightness of the light emitting unit is changed little by little.

[Claim 12]

A method for controlling an image forming apparatus that includes a human sensor for detecting a human around the image forming apparatus, the method comprising:

a step of reading, by a medium reader, from a medium that stores identification information of a user who is to use the image forming apparatus, the identification information, wherein a light emitting unit is provided adjacent to the medium reader;

a step of changing, based on the human sensor detecting a human in a second detecting region that includes a region which is more distant than the first detection region from the image forming apparatus, a light emitting state of the light emitting unit; and

a step of shifting, based on the human sensor detecting a human in the first detection region, a light emitting state of the light emitting unit.

[Claim 13]

The image forming apparatus according to Claim 1, wherein the button is located adjacent to a display unit.

[Claim 14]

The image forming apparatus according to Claim 13, further comprising a touch panel, wherein the touch panel is

separate from the button.

[Claim 15]

The image forming apparatus according to Claim 14, wherein the touch panel is off in the lower power state, and wherein the touch panel is on in the higher power state.

[Claim 16]

The image forming apparatus according to Claim 1, wherein the human sensor detects a human while the image forming apparatus is in the lower power state.

[Claim 17]

The image forming apparatus according to Claim 1, wherein the light emitting unit is in an active state while the image forming device is in the lower power state.

[Claim 18]

The image forming apparatus according to Claim 17, wherein the controller shifts the state of the image forming apparatus from the lower power state to the higher power state based on the user operation when the light emitting unit of the button is in an active state while the image forming device is in the lower power state.

[Claim 19]

The image forming apparatus according to Claim 18, wherein, when the light emitting state of the light emitting unit is the active state, the light emitting unit constantly emits light.

[Claim 20]

The image forming apparatus according to Claim 18, wherein, when the light emitting state of the light emitting

unit is the active state, the light emitting unit blinks.

[Claim 21]

The image forming apparatus according to Claim 18, wherein the human sensor detects a human while the light emitting unit of the button is in an active state while the image forming device is in the lower power state.