CLAIMS

[Claim 1] A skin condition measurement device comprising:

a case;

a base part being fixed inside the case;

a slider part being slidably supported by the case and the base;

a sensor part being slidably supported by the slider part;

a first biasing means which engages the base and the sensor part and biases the sensor part in such a way as to separate a leading end part of the sensor part from the slider part;

a cover part which has a guide surface to be pressed against skin of a subject and an opening part for moving the leading end part of the sensor part in and out, the opening part being located in the guide surface, the cover part being attachably and detachably connected to the slider part; and

a second biasing means which engages the base and the slider part and biases the slider part in such a way as to separate the guide surface from the case, wherein

the skin condition measurement device is configured such that along with being pressed of the guide surface by the skin of the subject, initially, only the guide surface moves toward the base of the case and subsequently, the guide surface and the leading end part of the sensor part move toward the base of the case.

[Claim 2] The skin condition measurement device according to claim 1, wherein the skin condition measurement device is configured such that along with being pressed of the guide surface by the skin of the subject, after the guide surface and the leading end part of the sensor part have moved toward the base of the case, further, only the leading end part of the sensor part moves toward the base of the case.

[Claim 3] The skin condition measurement device according to claim 2, wherein the skin condition measurement device is configured such that along with being pressed of the guide surface by the skin of the subject, after movement in which the guide surface and the leading end part of the sensor part move toward the base of the case, a pressing force per unit area which is exerted on the leading end part of the sensor part is same as or larger than a pressing force per unit area which is exerted on the guide surface.

[Claim 4] The skin condition measurement device according to claim 3, wherein the skin condition measurement device is configured such that a switch is attached to the

base part, and

by movement of the leading end part of the sensor part up to a predetermined position toward the base of the case, a posterior end portion of the sensor part turns the switch ON in order to initiate the measurement of the skin condition of the subject using the skin condition measurement device.

[Claim 5] The skin condition measurement device according to claim 1, wherein the sensor part has a first column part which slidably contacts the base part,

the base part has a second column part which slidably contacts the slider part, and

a central axis of the first column part and a central axis of the second column part are coaxially located.

[Claim 6] The skin condition measurement device according to claim 5, wherein the slider part has an opening part which slidably contacts the sensor part, and

a central axis of the opening part and a central axis of the first column part are coaxially located.

[Claim 7] The skin condition measurement device according to claim 1, wherein a first helical spring constitutes the first biasing means and a second helical spring constitutes the second biasing means, and

a central axis of the first helical spring and a central axis of the second helical spring are coaxially located.

[Claim 8] The skin condition measurement device according to claim 7, wherein the first helical spring is located between the base part and the sensor part and the second helical spring is located between the base part and the slider part.

[Claim 9] The skin condition measurement device according to claim 1, wherein the leading end part of the sensor part has electrodes for measuring a moisture content of the skin of the subject.

[Claim 10] The skin condition measurement device according to claim 9, wherein a plurality of the electrodes are arranged.

[Claim 11] The skin condition measurement device according to any one of claims

1 to 10, wherein the case includes an indicator for displaying, in a side surface portion of the case, a relative position of the cover part and the sensor part with respect to the case.

[Claim 12] The skin condition measurement device according to claim 11, wherein the indicator includes:

a window part being formed in the side surface portion of the case;

a first display part being slidably supported inside the window part and being connected to the slider part; and

a second display part being slidably supported inside the window part and being connected to the sensor part.

[Claim 13] The skin condition measurement device according to claim 12, wherein the indicator is configured such that

a slide direction and a slide amount of the first display part coincide with a slide direction and a slide amount of the slider part, and

a slide direction and a slide amount of the second display part coincide with a slide direction and a slide amount of the sensor part.

[Claim 14] The skin condition measurement device according to claim 13, wherein in the indicator,

the first display part has: a first region being constituted of a first display color, a first pattern, or a combination of the first display color and the first pattern, the first display color, the first pattern, or the combination of the first display color and the first pattern indicating that the cover part is present in a first position with respect to the case; and a second region being constituted of a second display color, a second pattern, or a combination of the second display color and the second pattern, the second display color, the second pattern, or the combination of the second display color and the second pattern indicating that the cover part is present in a second position with respect to the case, and

the second display part has: a third region being constituted of a third display color, a third pattern, or a combination of the third display color and the third pattern, the third display color, the third pattern, or the combination of the third display color and the third pattern indicating that the sensor part is present in a third position with respect to the case; and a fourth region being constituted of a fourth display color, a fourth pattern, or a combination of the fourth display color and the fourth pattern, the fourth display color, the fourth pattern, or the combination of the fourth display color and the fourth pattern indicating that the sensor part is present in a fourth position with respect to the case.

[Claim 15] The skin condition measurement device according to claim 14, wherein the indicator is configured

to indicate that the sensor part is in a standby state when a combination of the first region and the third region is displayed in the window part,

to indicate that the sensor part is in a contact state when a combination of the second region and the third region is displayed in the window part, and

to indicate that the sensor part is in a measurement start state when a combination of the second region and the fourth region is displayed in the window part.

[Claim 16] The skin condition measurement device according to any one of claims 1 to 10, wherein the cover part is transparent or translucent so as to visually recognize the sensor part inside the cover part.