Claims

1. A bracelet or strap for a watch case comprising:

a first arm inside which is housed a first printed circuit portion; and

a second arm,

wherein the first arm is extended by a median part arranged to be situated underneath the watch case,

wherein the median part includes a second printed circuit portion,

wherein the bracelet or strap further comprises electrical connection means for connecting the second printed circuit portion to the first printed circuit portion,

wherein the first printed circuit portion carries at least one electrical energy source and a microcontroller for powering and controlling a pressure sensor,

wherein the median part is covered by an insert arranged to act as a seat for the watch case,

wherein a housing, inside which the pressure sensor is arranged, is provided in the insert and communicates with an exterior to allow the pressure sensor to be placed in contact with a surrounding medium,

wherein the pressure sensor is mounted on the second printed circuit portion with the insertion of a sealing gasket between the housing and the second printed circuit portion, and

wherein the insert includes two guide elements arranged to be placed between two respective pairs of horns carried by the watch case, wherein the guide elements each is pierced with a hole for the passage of a pin to enable the bracelet to be attached to the watch case, wherein the housing, inside which is arranged the pressure sensor, is arranged inside one of the guide elements and opens into the hole for passage of the corresponding pin, wherein the hole has on one part of the perimeter thereof a local increase in diameter in order to place the pressure sensor in contact with the surrounding medium.

2. The bracelet according to claim 1, wherein a third printed circuit portion which is housed inside the second arm and which carries at least one other electronic component, is connected to the first printed circuit portion housed inside the first arm via the second printed circuit portion.

3. The bracelet according to claim 2, wherein the first, second and third printed circuit portions are made in one piece.

4. The bracelet according to claim 3, wherein the median part includes at least one arch portion.

5. The bracelet according to claim 3, wherein the first arm and the second arm are formed respectively by the first printed circuit portion and the third printed circuit portion covered with a first overmoulding layer.

6. The bracelet according to claim 5, wherein the insert is also covered with the first overmoulding layer.

7. The bracelet according to claim 6, including a sleeve formed of a first strand and of a second strand connected to each other by a connecting part, wherein the first and second strands are hollow and are each provided with an opening, so that the first and second arms can slide therein.

8. The bracelet according to claim 7, wherein the sleeve is formed of an upper band and a lower band joined to each other along the peripheral edges thereof.

9. The bracelet according to claim 5, including a sleeve formed of a first strand and of a second strand connected to each other by a connecting part, wherein the first and second strands are hollow and are each provided with an opening, so that the first and second arms can slide therein.

10. The bracelet according to claim 9, wherein the sleeve is formed of an upper band and a lower band joined to each other along the peripheral edges thereof.

11. The bracelet according to claim 5, wherein the first and second arms are overmoulded with a second plastic or elastomeric material.

12. The bracelet according to claim 2, wherein the median part includes at least one arch portion.

13. A bracelet or strap for a watch case comprising:

a first arm inside which is housed a first printed circuit portion; and

a second arm,

wherein the first arm is extended by a median part arranged to be situated underneath the watch case,

wherein the median part includes a second printed circuit portion,

wherein the bracelet or strap further comprises electrical connection means for connecting the second printed circuit portion to the first printed circuit portion,

wherein the first printed circuit portion carries at least one electrical energy source and a microcontroller for powering and controlling a pressure sensor,

wherein the median part is covered by an insert arranged to act as a seat for the watch case,

wherein a housing, inside which the pressure sensor is arranged, is provided in the insert and communicates with an exterior to allow the pressure sensor to be placed in contact with a surrounding medium,

wherein the pressure sensor is mounted on the second printed circuit portion with the insertion of a sealing gasket between the housing and the second printed circuit portion,

wherein the insert includes two guide elements arranged to be placed between two respective pairs of horns carried by the watch case, wherein the guide elements each is pierced with a hole for the passage of a pin to enable the bracelet to be attached to the watch case, wherein the housing, inside which is arranged the pressure sensor, is arranged inside one of the guide elements and opens into the hole for passage of the corresponding pin, wherein the hole has on one part of the perimeter thereof a local increase in diameter in order to place the pressure sensor in contact with the surrounding medium, and

wherein a third printed circuit portion which is housed inside the second arm and which carries at least one other electronic component, is connected to the first printed circuit portion housed inside the first arm via the second printed circuit portion.

14. A bracelet or strap for a watch case comprising:

a first arm inside which is housed a first printed circuit portion; and

a second arm,

wherein the first arm is extended by a median part arranged to be situated underneath the watch case,

wherein the median part includes a second printed circuit portion,

wherein the bracelet or strap further comprises electrical connection means for connecting the second printed circuit portion to the first printed circuit portion,

wherein the first printed circuit portion carries at least one electrical energy source and a microcontroller for powering and controlling a pressure sensor,

wherein the median part is covered by an insert arranged to act as a seat for the watch case,

wherein a housing, inside which the pressure sensor is arranged, is provided in the insert and communicates with an exterior to allow the pressure sensor to be placed in contact with a surrounding medium,

wherein the pressure sensor is mounted on the second printed circuit portion with the insertion of a sealing gasket between the housing and the second printed circuit portion,

wherein the insert includes two guide elements arranged to be placed between two respective pairs of horns carried by the watch case, wherein the guide elements each is pierced with a hole for the passage of a pin to enable the bracelet to be attached to the watch case, wherein the housing, inside which is arranged the pressure sensor, is arranged inside one of the guide elements and opens into the hole for passage of the corresponding pin, wherein the hole has on one part of the perimeter thereof a local increase in diameter in order to place the pressure sensor in contact with the surrounding medium,

wherein a third printed circuit portion which is housed inside the second arm and which carries at least one other electronic component, is connected to the first printed circuit portion housed inside the first arm via the second printed circuit portion, and

wherein the first, second and third printed circuit portions are made in one piece.