

CLAIMS

1. System for analyzing a patient using a transcutaneous sensor, having a base unit (1) for attaching to the patient, an injector (2), releasably connectable to the base unit (1), for the transcutaneous insertion of the sensor into the patient, and a detection unit (3), releasably connectable to the base unit (1), for generating measurement data by the sensor, characterized in that the base unit (1) has a holding device (4) which is configured to cooperate with the injector (2) and the detection unit (3) such that, in a detection configuration with the detection unit (3) arranged on the base unit (1), a contact pressure is applied to the sensor (5) by the holding device (4) for frictional fixing, and in an injection configuration with the injector (2) arranged on the base unit (1), a lower contact pressure than in the detection configuration is applied to the sensor (5) by the holding device (4), wherein -

~~2. Device according to claim 1,~~
characterized

~~in that~~ the holding device (4) has at least one lever element (6) which is arranged and configured such that the lever element (6) is movable in a direction of the sensor by the detection unit (3) being attached and wherein the sensor (5) is supported by an elastic compound that surrounds a portion of the sensor (5), and the at least one lever element (6) is configured to be displaced against the elastic compound (7) by a portion of the detection unit for the frictional fixing of the sensor (5) such that the lever element (6) does not bear directly on the sensor (5).

~~3.2. The system~~ Device according to claim ~~21,~~
characterized

in that the ~~holding device (4) has an elastic restoring element (6b) which cooperates with the lever element (6) and~~ elastic compound (7) is configured to generate a restoring force, away from the sensor (5), on the lever element (6).

~~4.3. The system~~ Device according to either of claims ~~2-1~~ and ~~32,~~

characterized

in that the holding device (4) has several lever elements which are arranged in a manner surrounding the sensor (5).

~~5.4.~~ The system~~Device~~ according to claim ~~4~~3,

characterized

in that the lever elements are arranged in a manner surrounding the sensor (5) in a ring, preferably in a uniformly distributed manner.

~~6.5.~~ The system~~Device~~ according to one of the preceding claims,

characterized

in that the detection unit (3) has a pressing surface which is arranged such that, when the detection unit (3) is arranged on the base unit (1), a contact pressure is applied to ~~the~~a holding element (2d), in particular in the direction of the sensor.

~~7.6.~~ The system~~Device~~ according to one of the preceding claims,

characterized

in that the holding device (4) exhibits an elastic material which is configured to be passed through by the sensor (5).

~~8.7.~~ The system~~Device~~ according to claim 6,

characterized

in that the elastic material has a passage opening for the sensor (5), said opening being configured to bear against the sensor (5) in a frictionally engaged manner, in particular for an interference fit.

~~9.8.~~ The system~~Device~~ according to one of the preceding claims,

characterized

in that the base unit (1) and detection unit (3) and/or base unit (1) and injector (2) are configured to be releasably connected by a bayonet coupling.

~~10.9.~~ The system~~Device~~ according to one of the preceding claims,

characterized

in that, in an injection position, the sensor (5) is arrangeable so as to pass through the holding device (4).

~~11.10.~~ The system~~Device~~ according to ~~one of the preceding claims~~claim 9, characterized

in that, in the detection configuration with the sensor (5) in the injection position, the detection unit (3) is configured to bear against the sensor (5) with a coupling element of the detection unit (3).

~~12.11.~~ The system~~Device~~ according to claim ~~11.10~~11, characterized

in that the coupling element is in the form of an optical coupling element.

~~13.12.~~ The system~~Device~~ according to one of the preceding claims, characterized

in that, in the injection configuration, the holding device (4) is configured to be passed through by a hollow needle (8) of the injector.