CLAIMS

I CLAIM:

1. A thermal sensing support structure comprising:

a body for placement on a skin surface, said body including an arm and a measuring portion, said measuring portion having an insulating sensing surface, said insulating sensing surface having at least one thermal sensor for receiving thermal energy from said skin surface, and said at least one thermal sensor being surrounded by said insulating sensing surface.

I CLAIM:

1. A thermal sensing support structure comprising:

a body for placement on a skin surface, said body including an adhesive layer for securing the body on the skin surface, said body being connected to an arm movable towards a brain tunnel area and a measuring portion located at a free end of the arm and configured to be placed at the brain tunnel area and biased against the brain tunnel area by the arm, said measuring portion having a thermally insulating surface,

said thermally insulating surface having at least one thermal sensor exposed to directly contact and receive thermal energy from said skin surface, the movable arm being configured to ensure the direct biased contact of the at least one thermal sensor with the skin surface at the brain tunnel area,

the measuring portion being free of adhesive, and

said at least one thermal sensor being only partially surrounded by said thermally insulating surface so that said at least one thermal sensor is located exposed from said thermally insulating surface for direct contact of the at least one thermal sensor with the skin surface at the brain tunnel area.

2. The support structure as claimed in claim 1, wherein said sensor is a wireless thermal sensor.

3. The support structure as claimed in claim 1, wherein said sensor is a wired thermal sensor.

4. The support structure as claimed in claim 1, wherein said thermally insulating surface is provided by one or more insulating materials that are selected from the group containing polyurethane, polypropylene, polymer, rubber and foam.

5. The support structure as claimed in claim 4, wherein said thermally insulating surface is provided by a cylinder of insulating material.

6. The support structure as claimed in claim 5, wherein said at least one thermal sensor is located at one end of the cylinder and a wire runs along a center of said cylinder, said wire terminating at the at least one thermal sensor.

7. The support structure as claimed in claim 1, wherein an external surface of the thermally insulating material is configured to directly contact the skin surface.

8. The support structure of claim 7, wherein the external surface of the thermally insulating material is flush with a surface of the thermal sensor.

9. A thermal sensing support structure comprising:

a body for placement on a skin surface, said body including an adhesive layer for securing the body on the skin surface, said body being connected to an arm movable towards a brain tunnel area and a measuring portion located at a free end of the arm and configured to be placed at the brain tunnel area and biased against the brain tunnel area by the arm,

said measuring portion having compressible insulating material providing a thermally insulating surface free of adhesive, and

at least one thermal sensor configured to directly contact the skin surface and receive thermal energy from said skin surface, the arm being configured to ensure the direct biased contact of the at least one thermal sensor with the skin surface at the brain tunnel area,

said at least one thermal sensor being only partially surrounded by said thermally insulating surface so that said at least one thermal sensor is located exposed from said thermally insulating surface for direct contact of the at least one thermal sensor with the skin surface at the brain tunnel area.

10. The support structure as claimed in claim 9, wherein an external surface of the insulating material is configured to directly contact the skin surface.

11. The support structure of claim 10, wherein the external surface of the insulating material is flush with a surface of the thermal sensor.