AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A non-compression garment and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range characterized in that it wherein the garment comprises:

 [[- A]] a composite material including a polymer matrix in which particles of an inorganic material capable of emitting far-infrared radiation are embedded[[.]]; and

 [[- A]] a fabric for surrounding a body part of [[the]] a user and having at least a portion or the whole of it coated with said composite material.
- 2. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to [[the]] claim 1, characterised in that wherein the composite material contains metal oxides and inorganic material and at least one of the following components Al₂O₃, Fe₂O₃, TiO₂, Cr₂O₃, SiO₂, MgO, ZrO₂, MnO₂, or Co₂O₃.
- 3. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to claims 1 to 2 claim 1, wherein

the composition of the metal oxide and inorganic material has the following composition by weight[[]], the percentage being 100%

TiO 2	30-40%
SiO ₂	10-20%
MnO 2	10-20%
Al 2 O 3	10-20%
Fe ₂ O ₃	5 to 10%
MgO	3-7%
Co ₂ O ₃	3-7%
ZrO ₂	≤ 5%

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4. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to claims 1,2,3 claim 1, wherein the composite material contains a polymer matrix which may be based on a breathable hydrophilic polymer, such as polytetrafluoroethylene (PTFE), polyurethane, polyester (PE), acrylic, polyvinyl chloride (PVC), polystyrene butadiene copolymer (SBS), or an artificial latex (polyisoprene), or any other thermoplastic or thermosetting polymers.

5. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to claims 1,2,3,4 claim 1, characterized in that wherein the polymer matrix is based on a water based polyurethane.

- 6. (Currently Amended) [[A]] The non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to claims 1, 2, 3, 4, 5 characterised in that claim 1, wherein the fabric is selected from any kind of a fabric or a combination of fabric made from threads, fibers or [[any]] other suitable natural or synthetic material.
- 7. (Currently Amended) [[A]] The non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to any preceding claim 1, wherein the garment comprises a fabric and a composite material where the fabric is printed with the composite material to form a pattern and surround [[any]] a body part of the user, such as arms, throat, torso, thigh or ealf, in order to increase the temperature of the skin, improve blood circulation in the microcapillaries under the skin, and to the upper and lower limbs, improve the muscle strength, reduce the lactic acid in the muscles and the free radicals[[and]], or to reduce the appearance of cellulite.

8. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to any preceding claim 1, wherein the fabric is impregnated with the composite material by a dipping process.

- 9. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to any preceding claim 1, wherein the fabric is impregnated with the composite material by a tumblering process.
- 10. (Currently Amended) [[A]] <u>The</u> non-compression garment, and in particular a "next to skin" article based on a fabric coated with a composite material on the basis of metal oxides and an inorganic material emitting in the far infrared range according to any preceding claim <u>1</u>, wherein the composite material has a level of emissivity of at least 95% in the far infrared radiation between 4 and 14 microns.
- 11. (New) The non-compression garment according to claim 4, wherein the hydrophilic polymer is polytetrafluoroethylene (PTFE), polyurethane, polyester (PE), acrylic, polyvinyl chloride (PVC), polystyrene-butadiene copolymer (SBS), or an artificial latex (polyisoprene), or other thermoplastic or thermosetting polymer.