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(54) **INDUSTRIAL METHOD OF SYNTHESIS OF METAL NANOPARTICLES WITH ADJUSTABLE SIZE**

(57) Textile material with bioceramic microparticles which simultaneously emit in the far-infrared in four specific wavelengths which comprises fibres (2) containing 1% of integrated bioceramic dust particles (3), encrusted during the polymer extrusion process, wherein the proportional composition of said 1% is: Oxygen: 57.40%, Sodium: 0.73%, Magnesium: 2.91%, Aluminium: 2.65%, Silicon: 9.59%, Calcium: 1.56%, Titanium: 14.75%, Zir-

conium: 10.41%, maintaining a reflectance of nearly 50% simultaneously in four wavelengths in the far-infrared electromagnetic spectrum: 7 μm , 11 μm , 12.5 μm and 17 μm , when the textile (1) with adhered bioceramic dust is in contact with the heat of a human or animal body. The bioceramic textile constitutes the fabric used to manufacture a garment (4) to provide physical benefits or antibacterial protection socks.

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