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(54) Title: NANOPARTICLES COMPRISING METALLIC AND HAFNIUM OXIDE MATERIALS, PREPARATION AND USES THEREOF

(57) Abstract: The present invention relates to novel nanoparticles which can be advantageously used in the health sector as diagnostic and/or therapeutic agents. Nanoparticles of the invention comprise a metallic material at least partly covered with hafnium oxide material or embedded therein. When compared to existing products, these nanoparticles offer a remarkable benefit over risk ratio. Specifically, these nanoparticles potentiate the efficiency of known metallic nanoparticles. Indeed, they retain the metal intrinsic properties and are now in addition safely usable in a mammal, in particular in a human being. The invention also relates to methods for producing said nanoparticles, to compositions containing same, and to uses thereof.

