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(54) Title: METALLIC NANOPARTICLES, PREPARATION AND USES THEREOF

(57) Abstract: The present application relates to activable nanoparticles which can be used in the health sector, in particular in human health, to disturb, alter or destroy target cells, tissues or organs. It more particularly relates to nanoparticles which can generate a significantly efficient therapeutic effect, when exposed to ionizing radiations. The inventive nanoparticle is a metallic nanoparticle having, as the largest size, a size comprised between about 80 and 105 nm, the metal having preferably an atomic number (Z) of at least 25. The invention also relates to pharmaceutical compositions comprising a population of nanoparticles as defined previously, as well as to their uses.