

The Technique for Producing Nanotechnologies with Carbon and Ferromagnetic Metal or Alloy

Ahmadiev G.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. Nanoparticles according to the method and technology including metal-carbon particles, particularly particles of a ferromagnetic metal or alloy encapsulated in graphitic carbon are suitable for use as a detectable moiety for imaging by the method of a magnetic resonance and fluorescence, drug delivery, cell marking and for local thermal therapeutic treatment such as hyperthermia.

<http://dx.doi.org/10.1088/1757-899X/412/1/012002>

References

- [1] Patent for an invention No. 002567620. Nanochasticity, soderzhashchieuglerodiferromagnitnyjmetallilisplay[Nanotechnologies with carbon and ferromagnetic metal or alloy] // EnneskensLeonardusVejnand (nl),Gyos John Vilhelm (nl), Resink Bernard Hendrik (nl),BerbenPiterHildegArdus (nl),HukstraYAkobus (nl). - ref-separator -
- [2] The United States Patent No. 4855091 - ref-separator -
- [3] Karnegi-Mellon. The United States Patent for an invention No. 5456986 - ref-separator -
- [4] Patent for an invention WO-A-2004/107368 - ref-separator -
- [5] Patent for an invention WO-A-2009/109588 - ref-separator -
- [6] Patent for an invention WO-A-2009/135937 - ref-separator -
- [7] Patent for an invention WO-A-99/46782 - ref-separator -
- [8] Patent for an invention USA-2008/0057001 - ref-separator -
- [9] Tasis D. 2006 Chem. Rev. 106 1105-1136
- [10] Harris P.J.F. et al 1998 A simple technique for the synthesis of filled carbon nanoparticles Chem. Phys. Lett. 293 53-58
- [11] US 2006/0137487 A1, 29.06.2006 - ref-separator -
- [12] US 2006/0116343 A1, 01.06.2006 - ref-separator -
- [13] WO 2007/146426 A2, 21.12. 2007 - ref-separator -
- [14] US 2008/0213189 A1, 04.09.2008 - ref-separator -
- [15] Shitova N.B. 2009 Rutenij-uglerodnyjnanokompozit Ruthenium-carbon nanocomposite material].Zhurnalstrukturojhimiiit 50 283-87