MD.25.

Title	**Process for obtaining the $CuO-Fe_2O_3$ nanowire network**
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Description EN	The invention relates to the technology for obtaining nanostructured materials, in particular to the technology for the production of nanowire networks by heat treatment in ambient temperature at 425 ^oC for 4 hours with the temperature rise rate in the furnace of 40 ^oC/min, which can be applied to the manufacture of gas sensors obtaining the ~120% acetone response at the concentration of 100 ppm in air and the operating temperature of only 200 ^oC. The portable devices based on such nanowire networks can accurately track breath acetone concentration, which is a selective breath marker for diabetes and has the potential for non-invasive diagnosis and painless monitoring of diabetes (no finger pricking), and thus simplify the management of this illness. The elaborated nanotechnology, being inexpensive to manufacture, may truly revolutionize personalized medicine and health care.
Class no.	4. Medicine - Health Care - Cosmetics