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The invention relates to the nanostructured material production technology, in particular to methods for producing magnetic nano-structures.

The method, according to the invention, consists in the production of an inorganic nanomatrix by electrochemical machining and the electrochemical deposition of magnetic metals into this matrix. Novelty of the invention consists in that the inorganic nano-matrix is produced by anodizing a GaAs wafer with crystallographic orientation (100) or (111)B in an aqueous  $\text{HNO}_3$  solution, and the deposition of magnetic metal is carried out in galvanostatic mode.

Claims: 1

Fig.: 4