

A method of magnetic recording and reading out information and spin data carrier relates to electronics and can be used in systems of record/reading and information processing. Data recording and reading is carried out by spin current due to magnetic reversal of a magnetic nanolayer in a multilayered magnetic data carrier which is constructed on the basis of three types of magnetic nanolayers with a different coercive force made of magnetic material with high degree of spin polarization of conductivity electrons. Magnetic nanolayers are divided by nonconducting nonmagnetic nanolayers, and each of magnetic nanolayers is made in the form of a system of the regular identical strips separated from each other which at the same time serve as electrodes for data recording and reading. The technical result is in increase of data recording rate and reliability, and also expansion of functionality.