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(54) Title: MAGNETIC MATERIALS

(57) Abstract

A memory element comprising nanomagnets having a rotational symmetry selected in order to provide high remanence and a suitable coercivity. There is also a sensor element comprising nanomagnets having a rotational symmetry selected such that they are superparamagnetic and exhibit substantially zero hysteresis so that a magnetisation of the nanomagnets depends only on the current value of applied field and not on the field history.

