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### (54) MAGNETIC METAMATERIAL, SPIN CURRENT CONTROL APPARATUS, AND SPIN CURRENT CONTROL METHOD

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#### (57) **ABSTRACT**

This magnetic metamaterial includes a perpendicularly magnetized film that is isotropic with respect to light, the perpendicularly magnetized film has a plurality of unit structures periodically arranged in an in-plane direction, and each of the plurality of unit structures has a size equal to or less than a wavelength of irradiated light and has three-fold rotational symmetry.

