

ABSTRACT**Fe-Pt Based Target And Preparation Method Thereof**

5 Provided is an Fe-Pt based target including Fe, Pt, and BN. Based on a total amount of the Fe-Pt based target, an amount of BN is more than 0 at% and less than or equal to 50 at%. In addition, a metallography of the Fe-Pt based target comprises multiple black phases. The black phases have an average size less than 3 μm and a dispersion uniformity less than 5×10^{-4} . By controlling the
10 amount of BN and limiting the average size and the dispersion uniformity of the black phases in the metallography, the Fe-Pt based target can enhance the bending strength, reduce the occurrence of abnormal discharges during sputtering, and mitigate particulate contamination of a magnetic recording layer. Therefore, the quality and yield of the magnetic recording layer formed
15 from the Fe-Pt based target can be improved.

FIG. 1