

PRODUCTION METHOD FOR ULTRA-HIGH-PURITY RUTHENIUM(RU) POWDER AND TARGET BY USING WASTE RUTHENIUM(RU) TARGETS

[ABSTRACT]

The present invention is related to a method for manufacturing Ru powder and a target which are frequently used in a seed layer for forming a magnetic layer. When producing Ru powder and a target by using a conventional wet method, it takes terribly much time to produce powder and to perform dissolution of a waste target and it also required much expensive cost. Further, since large quantity of chemical products were used, an environmental pollution problem such as disposal of waste water was generated. Thus, the present invention is devised to solve such a drawback.

In order to improve this problem, the present invention is characterized in that it simply removes surface pollutants and foreign substances on a surface of a waste Ru target by using a chemical method or a mechanical method, Ru is produced by using plasma, refined High purity Ru powder is produced through a heat process and pulverization, and a Ru target of high density by sintering is acquired.

Fig. 3