

ABSTRACT

RECOVERY METHOD FOR HIGH PURITY PLATINUM

A high purity platinum recovery method including the steps of dissolving a platinum alloy containing ruthenium in aqua regia and eliminating residue, thereafter causing acid with platinum dissolved therein and an ammonium chloride solution to react so as to deposit chloroplatinic ammonium salt, and reducing the chloroplatinic ammonium salt to obtain a platinum sponge. The method is characterized in that acid with platinum dissolved therein and the ammonium chloride solution are caused to react at a temperature of 40°C or higher. Provided is a method which enables recovery, at a high yield, of high purity platinum which can be reused in a platinum and a platinum-containing target as a result of efficiently eliminating ruthenium, cobalt, chromium, copper, iron, nickel, silicon and the like which become included in a spent platinum alloy sputtering target, particularly a magnetic material target, and in scraps such as mill ends, sawdust, and surface grinding scraps generated during the production process of such a target.