

METHOD FOR RECYCLING COPPER INDIUM GALLIUM SELENIUM MATERIALS

Abstract

A method for recycling copper indium gallium selenium materials comprises the steps of leaching by using sulfuric acid and hydrogen peroxide, reduction of selenium by using sulfur dioxide, separation of copper by using hydrolysis, alkali separation of indium and gallium, replacement of indium, hydrolysis of gallium, and the like. Leaching is carried out by using sulfuric acid in cooperation with hydrogen peroxide, so that the leaching rate is greatly improved, and acid gas pollution is reduced; PH differential copper is separated by using metal ion hydrolysis, so that costs are low; and in addition, alkali separation of gallium is carried out, separation between indium and gallium can be implemented by merely adjusting the PH of a solution, the separation effect is good, the purities of obtained indium and gallium products are high.

(Figure 1)