

METHOD FOR RECOVERING VALUABLE MATERIAL FROM LITHIUM ION SECONDARY BATTERY

Abstract

There is provided a means capable of recovering a valuable material
5 such as cobalt and nickel, with a low grade of a metal derived from a negative
electrode current collector, a low grade of fluorine, and a low grade of a
material derived from a negative electrode active material. A method for
recovering a valuable material from a lithium ion secondary battery, is
characterized in that it includes: a heat treatment step of performing heat
10 treatment on a lithium ion secondary battery; a crushing step of crushing a
heat-treated object obtained through the heat treatment step; a classification
step of classifying a crushed object obtained through the crushing step into a
coarse particle product and a fine particle product; and a wet magnetic
separation step of performing wet magnetic separation on the fine particle
15 product obtained through the classification step. According to the present
invention, it becomes possible to, when recovering a valuable material from a
lithium ion secondary battery, recover a valuable material such as cobalt and
nickel with a low grade of a metal derived from a negative electrode current
collector, a low grade of fluorine, and a low grade of an element derived from
20 a negative electrode active material.

Fig. 1