

METHOD FOR RECOVERING VALUABLE MATERIAL FROM LITHIUM ION SECONDARY BATTERY

Abstract

5 There is provided a method capable of recovering a valuable material
such as cobalt, nickel, and copper with a low grade of impurities and a high
recovery ratio. 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 treatment on a lithium ion secondary battery; a crushing
10 step of crushing a heat-treated object obtained through the heat treatment step;
a first stage of classification step of classifying a crushed object obtained
through the crushing step based on a classification point of 1.2 to 2.4 mm, and
a second stage of classification step of classifying an intermediate product and
a fine particle product obtained on a fine side in the first stage of classification
15 step based on a classification point of 0.3 mm or less; and a dry magnetic
separation step of repeating one time or more a step of performing dry
magnetic separation on an intermediate product obtained on a coarse side in
the second stage of classification step and performing dry magnetic separation
again on an obtained magnetically attracted matter.

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Fig. 1