Abstract

The present invention discloses a method for inspecting an object using multi-energy radiations and an apparatus thereof. The method comprises the steps of: causing multi-energy radiations to interact with an object under inspection; detecting and recording detection values after an interaction between the multi-energy radiations and the object under inspection; substituting a portion of the detection values into a predetermined calibration function to obtain information comprising primary material attribute; and determining further material attributes of the object by applying a set of functions suitable for a energy band corresponding to the information. The present invention is applicable to the large container cargo inspection without opening containers at customs, ports and airports.

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