

ABSTRACT

A method of production of nano-materials and an apparatus therefor by a water vapor explosion and a method of production
5 of nano-source-materials are provided. Atom particles including fine particles are evaporated and dispersed by exposing a source material to a vapor explosion, these are captured from a hot water curtain accompanying the explosion so as to be nano-materialized and collected around nuclei. The vapor explosion is accomplished
10 by injecting a liquid to the heated source material, relieving a pressure, inflating the heated source material or such so as to break an equilibrium state of vapor saturation and induce a chain of small explosions. As the source material, one having a high quality can be obtained by dry-distilling a waste of resin
15 and refining it.