

METHOD FOR MANUFACTURING METAL POWDER

ABSTRACT OF THE DISCLOSURE

A method in which a metal powder is produced by ejecting a thermally decomposable metal compound powder into a reaction vessel through a nozzle together with a carrier gas under the condition $V/S > 600$, where V is the flow rate of the carrier gas per unit time (liter/min), and S is the cross-sectional area of the nozzle opening part (cm^2), and heating this metal powder at a temperature which is higher than the decomposition temperature of the metal compound powder and not lower than $(T_m - 200)^\circ\text{C}$, where T_m is the melting point of the metal, in a state where the metal compound powder is dispersed in the gas phase at a concentration of 10 g/liter or less. The method provides a fine, spherical, highly-crystallized metal powder which has a high purity, high density, high dispersibility and extremely uniform particle size, at low cost and using a simple process.

(No figure suitable.)