

Title (en)

Nickel powder comprising ultra-fine spherical particles and method of producing the same

Title (de)

Ultrafeines sphärisches Nickelpulver sowie Verfahren zu seiner Herstellung

Title (fr)

Poudre de nickel ultra-fine sphérique et son procédé de préparation

Publication

**EP 0461866 B1 19970521 (EN)**

Application

**EP 91305280 A 19910612**

Priority

JP 15164590 A 19900612

Abstract (en)

[origin: EP0461866A2] A method of continuously manufacturing an ultrafine spherical nickel powder containing 99.5% or more by weight of nickel in which chemical reaction of nickel chloride vapor and hydrogen is caused by introducing an inert gas into the reaction and controlling the nickel chloride vapor density to about 0.05 to 0.3 in the inert gas while controlling the reaction temperature to about 1,004 DEG C (1,277K) to 1,453 DEG C (1,726K). The ultrafine spherical nickel powder produced is formed of substantially spherical particles having a particle size of about 0.1 to 3  $\mu$ m, and contains about 99.5% or more by weight of nickel.

IPC 1-7

**B22F 9/28**

IPC 8 full level

**B22F 9/28** (2006.01); **H01B 1/16** (2006.01); **H01B 1/22** (2006.01); **H05K 1/09** (2006.01)

CPC (source: EP KR)

**B22F 9/00** (2013.01 - KR); **B22F 9/28** (2013.01 - EP)

Cited by

EP1508390A4; EP0925861A3; EP0925860A3; EP0900611A3; EP1114684A4; US6312496B1; US6500227B1; US6402803B1; US6596052B2; US6881377B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0461866 A2 19911218**; **EP 0461866 A3 19920923**; **EP 0461866 B1 19970521**; CA 2044454 A1 19911213; CA 2044454 C 19970506; DE 69126170 D1 19970626; DE 69126170 T2 19980108; JP H0445207 A 19920214; KR 920000417 A 19920129; KR 940009339 B1 19941007

DOCDB simple family (application)

**EP 91305280 A 19910612**; CA 2044454 A 19910612; DE 69126170 T 19910612; JP 15164590 A 19900612; KR 910009836 A 19910612