

Title (en)

Process and apparatus for preparing metal powder by gas atomisation

Title (de)

Verfahren und Vorrichtung zur Herstellung von Metallpulver durch Gasverdüsung

Title (fr)

Procédé et dispositif pour la préparation de poudre métallique par atomisation à l'aide d'un gas

Publication

EP 1022078 B1 20041027 (DE)

Application

EP 00890013 A 20000118

Priority

AT 7099 A 19990119

Abstract (en)

[origin: EP1022078A2] The molten stream (S) exiting vertically from the nozzle body (D) is bombarded by at least three subsequent gas streams (1, 2, 3) in different directions. Production of metal powder from a melt comprises distributing a melt stream exiting a nozzle body of a metallurgical body (G) into drops using gas streams and leaving to solidify into powdered bodies. The molten stream (S) exiting vertically from the nozzle body (D) is bombarded by at least three subsequent gas streams (1, 2, 3) in different directions. An Independent claim is also included for a device for producing a metal powder from a melt comprising a disintegration unit with gas nozzle bodies (A, B, C) whose gas streams are directed onto the melt stream.

IPC 1-7

B22F 9/08

IPC 8 full level

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CPC (source: EP US)

B22F 9/082 (2013.01 - EP US); **B22F 2009/088** (2013.01 - EP US)

Cited by

EP1249510A3; EP1182270A1; AT411230B; AT412328B; US7309375B2; WO03031103A1; EP2700459B1; EP2586887B1

DOCDB simple family (publication)

EP 1022078 A2 20000726; EP 1022078 A3 20030507; EP 1022078 B1 20041027; AT 409235 B 20020625; AT A7099 A 20011115; AT E280649 T1 20041115; DE 50008367 D1 20041202; DK 1022078 T3 20050314; ES 2231150 T3 20050516; JP 2000212608 A 20000802; JP 4171955 B2 20081029; SI 1022078 T1 20050630; UA 61959 C2 20031215; US 2001054784 A1 20011227; US 2004031354 A1 20040219; US 6334884 B1 20020101; US 6632394 B2 20031014; US 7198657 B2 20070403

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EP 00890013 A 20000118; AT 00890013 T 20000118; AT 7099 A 19990119; DE 50008367 T 20000118; DK 00890013 T 20000118; ES 00890013 T 20000118; JP 2000040254 A 20000114; SI 200030585 T 20000118; UA 2000010296 A 20000118; US 48444700 A 20000118; US 64005503 A 20030814; US 90976301 A 20010723