

Title (en)

Process and apparatus for high pressure gas quenching in an atmospheric furnace

Title (de)

Verfahren und Vorrichtung zum Hochdruckgasabschrecken in einem Schutzgasofen

Title (fr)

Procédé et dispositif pour la trempe à gaz sous pression élevée dans un four à atmosphère

Publication

EP 1211329 A2 20020605 (EN)

Application

EP 01128749 A 20011203

Priority

US 72747300 A 20001204

Abstract (en)

Apparatus and process for recycling a quenching gas, such as helium, to be used with a treating gas, such as a carburizing gas, for the treating of components in an atmospheric furnace. <IMAGE>

IPC 1-7

C21D 1/613; **C21D 1/76**; **C21D 1/74**

IPC 8 full level

C21D 1/613 (2006.01); **C21D 1/62** (2006.01); **C21D 1/74** (2006.01); **C21D 1/76** (2006.01); **C21D 1/773** (2006.01)

CPC (source: EP US)

C21D 1/613 (2013.01 - EP US); **C21D 1/62** (2013.01 - EP US); **C21D 1/74** (2013.01 - EP US); **C21D 1/76** (2013.01 - EP US); **C21D 1/773** (2013.01 - EP US); **C21D 2241/01** (2013.01 - EP US)

Cited by

EP1233078A3; FR2858983A1; FR2863628A1; FR2844809A1; KR100953818B1; US7632453B2; WO2004042092A1; WO2005021805A1; WO2005066376A1; WO2004027098A1; WO2006064146A1; EP1661852A2; US7361299B2; US8551436B2

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