

Title (en)

METHOD AND DEVICE FOR RECYCLING GAS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR GASRÜCKGEWINNUNG

Title (fr)

PROCEDE ET DISPOSITIF DE RECUPERATION DE GAZ

Publication

**EP 1570093 A1 20050907 (DE)**

Application

**EP 03775284 A 20031103**

Priority

- DE 10251486 A 20021105
- EP 0312259 W 20031103

Abstract (en)

[origin: WO2004042092A1] The invention relates to the recycling of gas used during the quenching process in a thermal treatment, for example. According to the invention, the gas is removed directly from the chamber (2) and is compressed to the pressure prevailing in the high-pressure container (1) rather than being decompressed into a gas buffer, an additional compression step (3) being connected if the pressure inside the chamber lies below a threshold value, wherefore conduits (10, 11) comprising overflow regulators (12, 13) lead to the individual compression steps.

IPC 1-7

**C21D 1/62**

IPC 8 full level

**C21D 1/613** (2006.01); **C21D 1/62** (2006.01)

CPC (source: EP US)

**C21D 1/613** (2013.01 - EP US); **C21D 1/62** (2013.01 - EP US); **C21D 2241/01** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Citation (search report)

See references of WO 2004042092A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004042092 A1 20040521**; AU 2003283342 A1 20040607; DE 10251486 A1 20040519; EP 1570093 A1 20050907; US 2006165533 A1 20060727

DOCDB simple family (application)

**EP 0312259 W 20031103**; AU 2003283342 A 20031103; DE 10251486 A 20021105; EP 03775284 A 20031103; US 53391205 A 20051202