

Title (en)  
INSTALLATION FOR THE HEAT-TREATMENT OF PARTS

Title (de)  
ANLAGE ZUR W RMEBEHANDLUNG VON WERKST CKEN

Title (fr)  
INSTALLATION POUR LE TRAITEMENT THERMIQUE DE PIECES A USINER

Publication  
**EP 1488181 B1 20070711 (DE)**

Application  
**EP 03714799 A 20030311**

Priority

- DE 10213991 A 20020327
- DE 10259247 A 20021217
- EP 0302461 W 20030311

Abstract (en)  
[origin: DE10310739A1] Device for heat treating workpieces has an opening (16) for charging/discharging in the outer wall (2) of a rotary furnace (1) in a last treatment zone. The opening has a sluice (17). A quenching unit (18) formed as a quenching bath is connected to the furnace via a sluice. Preferred Features: The sluice is gas-tight. A further quenching unit (19) is connected to the furnace via the sluice and is formed as a quenching bath or as a gas quenching chamber. The temperature in the second quenching unit deviates from the temperature in the first quenching unit.

IPC 8 full level  
**F27B 9/16** (2006.01); **C21D 9/00** (2006.01); **F27B 9/38** (2006.01); **F27B 9/39** (2006.01); **C21D 1/63** (2006.01); **F27B 9/02** (2006.01); **F27B 9/04** (2006.01); **F27B 9/40** (2006.01); **F27D 1/18** (2006.01); **F27D 3/00** (2006.01)

CPC (source: EP KR US)  
**C21D 1/00** (2013.01 - KR); **C21D 9/0037** (2013.01 - EP US); **F27B 9/16** (2013.01 - EP KR US); **F27B 9/38** (2013.01 - EP US); **F27B 9/39** (2013.01 - EP US); **C21D 1/63** (2013.01 - EP US); **C21D 9/0018** (2013.01 - EP US); **C21D 9/0062** (2013.01 - EP US); **F27B 9/028** (2013.01 - EP US); **F27B 9/045** (2013.01 - EP US); **F27B 9/40** (2013.01 - EP US); **F27D 3/0024** (2013.01 - EP US); **F27D 2001/1891** (2013.01 - EP US)

Cited by  
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DOCDB simple family (publication)  
**WO 03081156 A1 20031002**; AT E366903 T1 20070815; AU 2003219035 A1 20031008; CN 100434545 C 20081119; CN 1643324 A 20050720; DE 10310739 A1 20031009; DE 50307651 D1 20070823; EP 1488181 A1 20041222; EP 1488181 B1 20070711; KR 100964994 B1 20100621; KR 20040091780 A 20041028; US 2005161869 A1 20050728; US 7588719 B2 20090915

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