

Title (en)  
METHOD AND APPARATUS FOR HEAT TREATING BY MEANS OF GAS JET STREAM

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM WÄRMEBEHANDELN MITTELS GASSTRAHL

Title (fr)  
PROCEDE ET DISPOSITIF DE TRAITEMENT THERMIQUE PAR JET DE GAZ

Publication  
**EP 0911418 B1 20060208 (EN)**

Application  
**EP 98907225 A 19980313**

Priority  

- JP 9801072 W 19980313
- JP 8224797 A 19970314
- JP 16664497 A 19970610
- JP 17781597 A 19970619

Abstract (en)  
[origin: EP0911418A1] A heat treatment device, for conducting heat treatment on a steel strip by blowing a jet of gas in which the steel strip is heated, cooled or dried by blowing the jet of gas onto the steel strip, comprises a baffle body attached to a forward end of a nozzle from which the jet of gas is blown out, wherein a projection area of the baffle body is determined to be 3 to 12% with respect to an area of a cross-section of the nozzle. A heat treatment device for conducting heat treatment on a steel strip by blowing a jet of gas comprises a baffle plate attached to a forward end of a nozzle from which the jet of gas is blown out, wherein a projection area of the baffle plate is determined to be smaller than 3% with respect to an area of a cross-section of the nozzle, and a length of the baffle plate in the axial direction of the nozzle is determined to be not less than 50% of the nozzle diameter. <IMAGE>

IPC 8 full level  
**C21D 9/56** (2006.01); **C21D 1/613** (2006.01); **C21D 1/667** (2006.01); **C21D 9/52** (2006.01); **C21D 9/573** (2006.01)

CPC (source: EP KR)  
**C21D 1/613** (2013.01 - EP KR); **C21D 1/667** (2013.01 - EP KR); **C21D 9/56** (2013.01 - EP); **C21D 9/573** (2013.01 - EP KR)

Cited by  
EP1108793A1; CN106282877A; FR2925920A1; EP2085488A1; EP1108795A1; FR2802552A1; US6554926B2; US9768096B2; US7147732B2; WO03078072A1; WO2013178470A1; WO2015158795A1; WO0244430A1; WO2009103891A3; WO2019201622A1

Designated contracting state (EPC)  
BE DE FR GB NL

DOCDB simple family (publication)  
**EP 0911418 A1 19990428**; **EP 0911418 A4 20040324**; **EP 0911418 B1 20060208**; BR 9804782 A 19990817; CN 1083896 C 20020501; CN 1219206 A 19990609; DE 69833424 D1 20060420; DE 69833424 T2 20061026; KR 100293139 B1 20010615; KR 20000011032 A 20000225; TW 404982 B 20000911; WO 9841661 A1 19980924

DOCDB simple family (application)  
**EP 98907225 A 19980313**; BR 9804782 A 19981113; CN 98800275 A 19980313; DE 69833424 T 19980313; JP 9801072 W 19980313; KR 19980709182 A 19981113; TW 87103745 A 19980313