

Title (en)
APPARATUS FOR EVENLY DIRECTING A GAS TOWARDS A FLAT SURFACE

Publication
EP 0189855 B1 19920318 (DE)

Application
EP 86100915 A 19860123

Priority
DE 3503089 A 19850130

Abstract (en)
[origin: US4736529A] A device for the uniform application of gas on a plane surface comprises several slot-like openings which are at least approximately in one plane; the longitudinal axes of the nozzle openings are radially arranged, whereas the direction of the flow exiting from the slot-like openings is inclined towards the plane in which the openings are located. This allows an extremely uniform application so that the difference between the maximum and the minimum values of the heat-transfer coefficient is only very small.

IPC 1-7
C21D 1/34; **C21D 1/767**; **C21D 9/54**; **F27D 7/04**; **F27D 13/00**

IPC 8 full level
C21D 1/34 (2006.01); **C21D 1/767** (2006.01); **C21D 9/00** (2006.01); **C21D 9/54** (2006.01); **C22F 1/04** (2006.01); **F27D 7/04** (2006.01); **F27D 13/00** (2006.01)

CPC (source: EP US)
C21D 1/767 (2013.01 - EP US); **C21D 9/54** (2013.01 - EP US); **F27D 7/04** (2013.01 - EP US); **F27D 13/00** (2013.01 - EP US)

Cited by
AT399164B; US5441242A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)
EP 0189855 A2 19860806; **EP 0189855 A3 19880921**; **EP 0189855 B1 19920318**; AT E73863 T1 19920415; CA 1240507 A 19880816; DE 3503089 A1 19860731; DE 3503089 C2 19881208; DE 3684339 D1 19920423; JP H0218365 B2 19900425; JP S61201734 A 19860906; US 4736529 A 19880412

DOCDB simple family (application)
EP 86100915 A 19860123; AT 86100915 T 19860123; CA 500651 A 19860130; DE 3503089 A 19850130; DE 3684339 T 19860123; JP 1686786 A 19860130; US 82343486 A 19860128