

Title (en)  
IONIZER AND USE THEREOF IN AN EXHAUST GAS PURIFYING INSTALLATION FOR CONDENSED HUMID AND/OR DROPLET-LOADED GASES

Title (de)  
IONISATOR UND SEINE VERWENDUNG IN EINER ABGASREINIGUNGSANLAGE FÜR TROPFENBELADENE UND/ODER KONDENSIERENDE FEUCHTGASE

Title (fr)  
IONISATEUR ET UTILISATION DANS UNE INSTALLATION D'EPURATION DE GAZ D'ECHAPPEMENT POUR GAZ HUMIDES CONDENSES ET/OU CHARGES DE GOUTTELETTES

Publication  
**EP 1539359 A1 20050615 (DE)**

Application  
**EP 03807751 A 20030718**

Priority  
• DE 10244051 A 20020921  
• EP 0307818 W 20030718

Abstract (en)  
[origin: DE10244051C1] Ionizer comprises a nozzle plate (4) and a high voltage electrode grid (5). The nozzle plate has an arrangement of circular nozzles (3). Parallel electrode pins (1) directed against the flow direction protrude concentrically in the direction of the nozzles. Each electrode pin has a star shape on its free end. Ionizer comprises a nozzle plate (4) arranged over the cross-section of the flow channel and connected to an electrical reference potential, and a high voltage electrode grid (5) connected in the flow direction (8), arranged concentrically in the flow channel over the cross-section and electrically insulated in the channel wall. The nozzle plate has an arrangement of circular nozzles (3). Parallel electrode pins (1) directed against the flow direction protrude concentrically in the direction of the nozzles. Each electrode pin has a star shape on its free end. The nozzle plate, electrode grid and electrode pins are made from electrically conducting material inert for the process environment.

IPC 1-7  
**B03C 3/53**; **B03C 3/41**; **B03C 3/16**; **B03C 3/47**; **B03C 3/09**

IPC 8 full level  
**B03C 3/09** (2006.01); **B03C 3/16** (2006.01); **B03C 3/41** (2006.01); **B03C 3/47** (2006.01); **B03C 3/53** (2006.01)

CPC (source: EP US)  
**B03C 3/09** (2013.01 - EP US); **B03C 3/16** (2013.01 - EP US); **B03C 3/41** (2013.01 - EP US); **B03C 3/47** (2013.01 - EP US); **B03C 3/53** (2013.01 - EP US); **B03C 2201/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004033104A1

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)  
**DE 10244051 C1 20031120**; AU 2003250987 A1 20040504; EP 1539359 A1 20050615; JP 2006500217 A 20060105; JP 4250591 B2 20090408; US 2005126392 A1 20050616; US 7101424 B2 20060905; WO 2004033104 A1 20040422

DOCDB simple family (application)  
**DE 10244051 A 20020921**; AU 2003250987 A 20030718; EP 0307818 W 20030718; EP 03807751 A 20030718; JP 2004542267 A 20030718; US 4664005 A 20050128