

Title (en)  
Double swirl nozzle

Title (de)  
Doppeldrallsprühdüse

Title (fr)  
Büse à double tourbillon

Publication  
**EP 1491260 B1 20050810 (DE)**

Application  
**EP 03014004 A 20030621**

Priority  
EP 03014004 A 20030621

Abstract (en)  
[origin: EP1491260A1] A gas washer has water jets, each of which has a water inlet (10) and two outlet chambers (5, 6) that impart a rotational twist to the emerging droplets in opposite directions. The two jets are aligned along slightly diverging axes. The overlapping droplet zone the contra-rotation of droplets results in collisions and further droplet atomisation.

IPC 1-7  
**B05B 1/34**

IPC 8 full level  
**B01D 53/34** (2006.01); **B01D 53/18** (2006.01); **B01D 53/77** (2006.01); **B05B 1/14** (2006.01); **B05B 1/34** (2006.01)

CPC (source: EP KR US)  
**B05B 1/14** (2013.01 - EP KR US); **B05B 1/3426** (2013.01 - EP KR US)

Cited by  
DE102015207741A1; EP3088087A1; US9925546B2

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)  
**EP 1491260 A1 20041229; EP 1491260 B1 20050810**; AT E301502 T1 20050815; CN 100512973 C 20090715; CN 1572374 A 20050202; DE 50300967 D1 20050915; DK 1491260 T3 20051114; ES 2244868 T3 20051216; JP 2005007394 A 20050113; JP 4188881 B2 20081203; KR 101100856 B1 20120102; KR 20040111189 A 20041231; SI 1491260 T1 20051031; US 2005017093 A1 20050127; US 7175109 B2 20070213; ZA 200404876 B 20050426

DOCDB simple family (application)  
**EP 03014004 A 20030621**; AT 03014004 T 20030621; CN 200410059400 A 20040621; DE 50300967 T 20030621; DK 03014004 T 20030621; ES 03014004 T 20030621; JP 2004182910 A 20040621; KR 20040045828 A 20040619; SI 200330065 T 20030621; US 87281704 A 20040621; ZA 200404876 A 20040621