

Title (en)
Mixing-in device for small amounts of fluid.

Title (de)
Einmischvorrichtung kleiner Fluidmengen.

Title (fr)
Immixture de petites quantités de fluides.

Publication
EP 0526392 B1 19951115 (DE)

Application
EP 92810503 A 19920701

Priority
CH 227591 A 19910730

Abstract (en)
[origin: EP0526392A1] The device for mixing in a small amount of fluid (1) into the main stream of another fluid (2) in a main duct has a nozzle injection system (3) and a static mixing element (4, 5) downstream thereof. The input cross section (F) of the mixing element is subdivided into subareas (F1, F2, F3, F4). The nozzle injection system comprises metering main pipes having a plurality of directed metering orifices (21). The flow rates through the metering orifices are proportional to the part streams through the corresponding associated subareas (F1, F2, F3, F4). This results in very uniform through-mixing over a short distance and with only a small pressure drop. The mixing-in device is particularly suitable for Denox installations. <IMAGE>

IPC 1-7
B01F 5/04

IPC 8 full level
B01D 53/56 (2006.01); **B01F 23/00** (2022.01); **B01F 23/10** (2022.01)

CPC (source: EP US)
B01F 25/3131 (2022.01 - EP US); **B01F 25/4316** (2022.01 - EP US); **B01F 25/4323** (2022.01 - EP US)

Cited by
CN102389727A; DE102011089850A1; CN103968372A; DE10019414C2; CN101939086A; US2011188338A1; CN102151503A; US8317390B2; DE102008028616A1; DE10324886A1; DE10324886B4; EP1982756A1; US7665884B2; WO2005021144A1; WO9512452A3; WO2011020200A1; WO2009097878A1; WO2011116840A1; US9518734B2; EP2098697A1

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

DOCDB simple family (publication)
EP 0526392 A1 19930203; **EP 0526392 B1 19951115**; AT E130220 T1 19951215; DE 59204320 D1 19951221; JP 3385042 B2 20030310; JP H05208125 A 19930820; US 5380088 A 19950110

DOCDB simple family (application)
EP 92810503 A 19920701; AT 92810503 T 19920701; DE 59204320 T 19920701; JP 20394492 A 19920730; US 18392694 A 19940121