

Title (en)
TURBOMIXER WITH ROTATING INJECTOR FOR MIXING LIQUID AND/OR GASEOUS MEDIA

Publication
EP 0365652 B1 19930825 (DE)

Application
EP 89905162 A 19890428

Priority
HU 219188 A 19880429

Abstract (en)
[origin: WO8910185A1] Mixer for absorbing and mixing gases and steams into liquids or for mixing or homogenizing a liquid with another liquid and/or for dispersing a liquid into a gas or steam space, characterized in that it includes a rotor disk with backwardly bent blades (4, 5) known per se, which are enclosed on both sides by a front wall (2) containing the extraction opening (38) and a back wall (3) delimiting at least the whole of the delivery space; a fraction chamber (7) is provided in the shaft of the rotor disk (1) and linked with the coaxial hollow main-shaft support; at least two blades (5) constitute an integral part with the conduit (12) for the propellant; the inner end of the conduit connects with the fraction chamber (7) while a nozzle (9) is provided at the outer end; the rotor disk (1) is enclosed by a shell (32) crossed by injectors (8) coaxial with the nozzles (9); the converger (11) of the injectors is enclosed on three sides, by the shell (32) of the rotor disk, by the front wall (2) and by the back wall (3) and is connected on the fourth side with a blade; finally, the main-shaft support (6) is connected with the standing conduit (16) through a rotating connection (15).

IPC 1-7
B01F 3/04; **B01F 3/08**; **B01F 5/16**

IPC 8 full level
B01F 3/04 (2006.01); **B01F 3/08** (2006.01); **B01F 5/02** (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP US)
B01F 23/233 (2022.01 - EP US); **B01F 23/233642** (2022.01 - EP); **B01F 23/431** (2022.01 - EP US); **B01F 25/212** (2022.01 - EP US); **B01F 25/2122** (2022.01 - EP US); **B01F 35/3203** (2022.01 - EP US); **B01F 23/233642** (2022.01 - US); **B01F 35/32015** (2022.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 8910185 A1 19891102; DE 58905377 D1 19930930; EP 0365652 A1 19900502; EP 0365652 B1 19930825; HU 201258 B 19901028; US 5176447 A 19930105

DOCDB simple family (application)
HU 8900017 W 19890428; DE 58905377 T 19890428; EP 89905162 A 19890428; HU 219188 A 19880429; US 45864790 A 19900202