

Title (en)
AERATING DEVICE FOR LIQUIDS

Publication
EP 0204688 B2 19921111 (DE)

Application
EP 86890128 A 19860507

Priority
AT 169685 A 19850605

Abstract (en)
[origin: EP0204688A2] 1. A device for aerating liquids comprising : a rotor (2) whose rotational axis is vertical and which is disposed near the bottom of a tank and which intakes air and liquid ; and a stator (4) which extends around the rotor (2) and has a closed ring of right-angled cross-section flow ducts (8) each having an entry for the liquid-air mixture, the flow ducts (8) being inclined relatively to the radial direction in the direction of rotation of the rotor (2), characterised in that the flow ducts (8) are separated from one another by wedge-shaped gaps whose vertices are disposed between the immediately adjacent inlets, and the vertical boundary surfaces of each flow duct (8) either extend parallel to one another or converge or diverge at an angle of at most 7 degrees.

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

IPC 8 full level
C12M 1/06 (2006.01); **B01F 3/04** (2006.01); **C02F 3/16** (2006.01); **C02F 3/20** (2006.01); **C12M 1/04** (2006.01)

CPC (source: EP)
B01F 23/23342 (2022.01)

Cited by
US5358671A; DE9316251U1; US5356570A; DE4207077A1

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

DOCDB simple family (publication)
EP 0204688 A2 19861210; **EP 0204688 A3 19880622**; **EP 0204688 B1 19900103**; **EP 0204688 B2 19921111**; AT 383108 B 19870525; AT A169685 A 19861015; BR 8602601 A 19870203; CN 86103733 A 19861217; DE 3616680 A1 19861211; DE 3616680 C2 19890524; ES 555750 A0 19870301; ES 8703748 A1 19870301; FI 862145 A0 19860521; FI 862145 A 19861206; FI 88262 B 19930115; FI 88262 C 19930426; IN 165315 B 19890916; JP H0313866 B2 19910225; JP S6244167 A 19870226; SU 1625330 A3 19910130

DOCDB simple family (application)
EP 86890128 A 19860507; AT 169685 A 19850605; BR 8602601 A 19860604; CN 86103733 A 19860530; DE 3616680 A 19860516; ES 555750 A 19860605; FI 862145 A 19860521; IN 378CA1986 A 19860519; JP 12829986 A 19860604; SU 4027574 A 19860604