

Title (en)

PROCESS AND DEVICE FOR INTRODUCING GAS MICRO-BUBBLES INTO A LIQUID

Publication

**EP 0401721 A3 19920520 (DE)**

Application

**EP 90110530 A 19900602**

Priority

DE 3918307 A 19890605

Abstract (en)

[origin: EP0401721A2] For introducing gas microbubbles into a liquid, aeration elements (12) which are charged with gas via a gas supply line (14) are arranged in the bottom region of a container (10). The aeration elements are part of the gas supply line. The weight of the aeration elements with the gas supply line is selected so that special fixtures for the gas supply line are not necessary. <IMAGE>

IPC 1-7

**B01F 3/04**; C02F 3/12

IPC 8 full level

**B01F 3/04** (2006.01)

CPC (source: EP US)

**B01F 23/2311** (2022.01 - EP US); **B01F 23/231143** (2022.01 - EP); **B01F 23/231151** (2022.01 - EP); **B01F 23/231152** (2022.01 - EP); **B01F 23/231241** (2022.01 - EP US); **B01F 23/231143** (2022.01 - US); **B01F 23/231151** (2022.01 - US); **B01F 23/231152** (2022.01 - US); **B01F 23/231231** (2022.01 - EP US); **B01F 23/231232** (2022.01 - EP US)

Citation (search report)

- [AP] DE 3744608 A1 19890713 - SCHUMACHER SCHE FAB VERWALT [DE]
- [A] DE 3716744 A1 19881208 - GVA MBH [DE]
- [A] DE 3731778 A1 19890330 - JAEGER ARNOLD [DE]
- [A] GB 1582520 A 19810107 - HAWKER SIDDELEY WATER ENG LTD
- [A] US 4489016 A 19841218 - KRIEBEL JOHN E [US]

Cited by

AT503643B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0401721 A2 19901212**; **EP 0401721 A3 19920520**; DE 3918307 A1 19901213; US 5098581 A 19920324

DOCDB simple family (application)

**EP 90110530 A 19900602**; DE 3918307 A 19890605; US 53232490 A 19900605