

Title (en)  
GAS DISSOLUTION DEVICE

Title (de)  
GASAUFLÖSUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE DISSOLUTION DE GAZ

Publication  
**EP 4147770 A1 20230315 (EN)**

Application  
**EP 20934639 A 20200820**

Priority  
• JP 2020082338 A 20200508  
• JP 2020031529 W 20200820

Abstract (en)  
A gas dissolver includes a gas dissolving tank (1) that dissolves gas in liquid inside, a partition (17) dividing an inside of the gas dissolving tank (1) into an upper chamber (22) and a lower chamber (23), an intake tube (6) to introduce a gas-liquid mixture into the gas dissolving tank (1) from outside, and a discharge pipe channel (3) to discharge gas dissolved liquid from the lower chamber (23) of the gas dissolving tank (1). The intake tube (6) has a downstream end (6a) with an opening extending toward a center of a ceiling (13) of the gas dissolving tank (1). The partition (17) includes a connecting path (17a) connecting the upper chamber (22) and the lower chamber (23). The connecting path (17a) is off a center of the partition (17).

CPC (source: EP)  
**B01F 23/23413** (2022.01); **B01F 23/454** (2022.01); **B01F 25/25** (2022.01); **B01F 25/53** (2022.01); **B01F 33/502** (2022.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4147770 A1 20230315**; **EP 4147770 A4 20240529**; CN 115605285 A 20230113; JP 7520471 B2 20240723; JP WO2021225009 A1 20211111; WO 2021225009 A1 20211111

DOCDB simple family (application)  
**EP 20934639 A 20200820**; CN 202080100457 A 20200820; JP 2020031529 W 20200820; JP 2022519895 A 20200820