

Title (en)
METHOD AND ARRANGEMENT FOR INTRODUCING GAS INTO A MEDIUM

Title (de)
VERFAHREN UND ANORDNUNG ZUR EINBRINGUNG VON GAS IN EIN MEDIUM

Title (fr)
PROCÉDÉ ET AGENCEMENT POUR L'INTRODUCTION DE GAZ DANS UN MILIEU

Publication
EP 4076715 A1 20221026 (DE)

Application
EP 20815716 A 20201130

Priority
• EP 19020708 A 20191218
• EP 2020025550 W 20201130

Abstract (en)
[origin: WO2021121652A1] The invention relates to a method for introducing gas, in particular liquid and/or gaseous carbon dioxide or oxygen, into a medium (21), which medium is in a static or flowing state in a media container (20) and forms a surface (22) in the media container (20), wherein the gas is removed from a storage system (10) and is supplied using an introduction line (30) of an introduction point (33) beneath the surface (22) of the medium (21) in the media container (21), wherein the introduction line (30) is guided at an immersion position (34) through the surface (22) of the medium (21) in the media container (20), and wherein the gas is fed into the medium (21) at the introduction point (33) using one or more feeding-in devices (35). According to the invention: the gas is conveyed through a first portion (31) of the introduction line (30) at a pressure that is in a first pressure range, in particular above the pressure at the triple point of carbon dioxide; the gas is conveyed through a second portion (32) of the introduction line (30) at a pressure that is in a second pressure range below the first pressure range; and, at one or more throttle points (36), the gas drops from the pressure in the first pressure range to the pressure in the second pressure range, wherein the one or more throttle devices (36) is or are arranged between the first and the second portion (31, 32) of the introduction line (30) in a throttle region (37) that extends upstream and downstream of the immersion position (34) in the introduction line (30). The invention also relates to a corresponding arrangement (100).

IPC 8 full level
C02F 1/66 (2006.01); **C02F 1/68** (2006.01)

CPC (source: EP)
B01F 23/2311 (2022.01); **B01F 23/231141** (2022.01); **B01F 23/23762** (2022.01); **C02F 1/66** (2013.01); **C02F 1/685** (2013.01); **C02F 2301/066** (2013.01)

Citation (search report)
See references of WO 2021121652A1

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)
WO 2021121652 A1 20210624; EP 4076715 A1 20221026

DOCDB simple family (application)
EP 2020025550 W 20201130; EP 20815716 A 20201130