



(11) **EP 3 792 344 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(51) Int Cl.:
C12N 5/02 (2006.01) **C12M 1/04** (2006.01)
C12M 3/00 (2006.01) **C12N 5/071** (2010.01)

(48) Corrigendum issued on:
19.05.2021 Bulletin 2021/20

(86) International application number:
PCT/JP2019/020717

(43) Date of publication:
17.03.2021 Bulletin 2021/11

(87) International publication number:
WO 2020/003833 (02.01.2020 Gazette 2020/01)

(21) Application number: **19824606.8**

(22) Date of filing: **24.05.2019**

(84) Designated Contracting States:
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 States:
BA ME
KH MA MD TN

(72) Inventors:
• **NAKAI, Shinichi**
Ashigarakami-gun, Kanagawa 258-8577 (JP)
• **TANIGUCHI, Kosuke**
Ashigarakami-gun, Kanagawa 258-8577 (JP)
• **HARAGUCHI, Nobuyuki**
Ashigarakami-gun, Kanagawa 258-8577 (JP)
• **ISHIHARA, Tsukasa**
Ashigarakami-gun, Kanagawa 258-8577 (JP)

(30) Priority: **27.06.2018 JP 2018122322**

(71) Applicant: **FUJIFILM Corporation**
Tokyo 106-8620 (JP)

(74) Representative: **Hoffmann Eitle**
Patent- und Rechtsanwälte PartmbB
Arabellastraße 30
81925 München (DE)

(54) **CELL CULTURE METHOD, METHOD FOR PRODUCING PRODUCT, AND CELL CULTURE DEVICE**

(57) Provide are a cell culture method which includes using a culture vessel which contains a cell suspension containing cells and discharging a gas including 30% by volume or more of oxygen into the cell suspension from a sparger disposed in the culture vessel to culture the cells, in which an average hole diameter in a gas discharge portion in the sparger is 1 μm or more and 300

μm or less, and a surface area A (m^2) in the gas discharge portion in the sparger, a volume X (m^3) of the cell suspension in the culture vessel, and a flow rate Q (m^3/min) of the gas that is discharged from the sparger satisfy a specific relationship, a product producing method including the cell culture method, and a cell culture device that enables the cell culture method.

EP 3 792 344 A8