



(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) 72

(51) Int Cl.:
H01M 8/04 (2006.01) **C01B 3/38** (2006.01)

(86) International application number:
PCT/JP2010/001066

(48) Corrigendum issued on:
27.06.2012 Bulletin 2012/26

(87) International publication number:
WO 2010/119601 (21.10.2010 Gazette 2010/42)

(43) Date of publication:
22.02.2012 Bulletin 2012/08

(21) Application number: **10764188.8**

(22) Date of filing: **18.02.2010**

(84) Designated Contracting States:
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 SE SI SK SM TR

(30) Priority: **13.04.2009 JP 2009096860**

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(54) **FUEL CELL POWER GENERATION SYSTEM**

(57) An object is to provide a fuel cell power generation system capable of preventing powder of catalyst or dust, which falls during replacement of a desulfurizer, from arriving at a flow sensor. The system includes a desulfurizer 3 configured to eliminate a sulfur component from a raw gas serving as a raw material of a fuel gas containing hydrogen for power generation of a fuel cell as a main component; a flow sensor 17 disposed upstream from the desulfurizer 3 and configured to measure a flow rate of raw gas passing through the desulfurizer 3; and a raw material pipe 11 having one end connected to a lower end of the desulfurizer 3 and another end connected to the flow sensor 17. The raw gas flows through an inside of the desulfurizer 3 in an upward direction, and the desulfurizer 3 is detachably connected to the raw material pipe 11. The desulfurizer 3 and the flow sensor 17 are disposed close to each other so as to be arranged side by side substantially along a vertical direction. A trap portion 16 configured to prevent the catalyst powder of the desulfurizer 3 or dust, which enters from one end of

the raw material pipe 11, from arriving at the flow sensor 17 is provided at a portion of the raw material pipe 11 between the one end thereof and another end thereof. An upstream side of the trap portion 16 is situated above the trap portion 16.

FIG. 2

