

Title (en)

PHOTOCATALYTIC CARBON DIOXIDE REDUCTION METHOD USING A COMPOSITE PHOTOCATALYST

Title (de)

VERFAHREN ZUR PHOTOKATALYTISCHEN KOHLENSTOFFDIOXIDREDUKTION UNTER VERWENDUNG EINES ZUSAMMENGESETZTEN PHOTOKATALYSATORS

Title (fr)

PROCEDE DE REDUCTION PHOTOCATALYTIQUE DU DIOXYDE DE CARBONE METTANT EN OEUVRE UN PHOTOCATALYSEUR COMPOSITE

Publication

EP 3206788 A1 20170823 (FR)

Application

EP 15775204 A 20151006

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Abstract (en)

[origin: WO2016058862A1] The invention relates to a photocatalytic carbon dioxide reduction method carried out in liquid and/or gas phase under irradiation, using a photocatalyst containing a first semiconductor SC1, particles comprising one or more metallic-state elements M, and a second semiconductor SC2, wherein the method is carried out by contacting a feedstock containing the CO₂ and at least one sacrificial compound with the photocatalyst, then irradiating the photocatalyst such that the CO₂ is reduced, and oxidising the sacrificial compound in order to produce an effluent containing at least in part C1 or above carbon molecules other than CO₂.

IPC 8 full level

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CPC (source: EP)

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C-Set (source: EP)

1. **C07C 1/12 + C07C 9/04**
2. **C07C 51/00 + C07C 53/02**

Citation (search report)

See references of WO 2016058862A1

Cited by

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