

Title (en)

CATALYST SYSTEM, ELECTRODE, AND FUEL CELL OR ELECTROLYSER

Title (de)

KATALYSATORSYSTEM, ELEKTRODE, SOWIE BRENNSTOFFZELLE ODER ELEKTROLYSEUR

Title (fr)

SYSTÈME DE CATALYSEUR, ÉLECTRODE, AINSI QUE PILE À COMBUSTIBLE OU ÉLECTROLYSEUR

Publication

**EP 3821489 A1 20210519 (DE)**

Application

**EP 19720769 A 20190410**

Priority

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- DE 2019100331 W 20190410

Abstract (en)

[origin: CA3099597A1] The invention relates to a catalyst system, an electrode which comprises the catalyst system and a fuel cell or an electrolyzer having at least one such electrode. The catalyst system comprises an electrically conductive carrier metal oxide and an electrically conductive, metal oxide catalyst material, wherein the carrier metal oxide and the catalyst material differ in their composition and wherein the catalyst material and the carrier metal oxide are each stabilized with fluorine. A near-surface pH value, designated pzzp value (pzzp = point of zero zeta potential), of the carrier metal oxide and of the catalyst material differ from one another, wherein the pup value c) if either the carrier metal oxide or the catalyst material is at most pF- 5 The catalyst material and the carrier metal oxide form an at least two-phase disperse oxide composite,

IPC 8 full level

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See references of WO 2020011300A1

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