Title (en)

BINARY ALLOYS AND OXIDES THEREOF FOR ELECTROCATALYTIC REDUCTION OF CARBON DIOXIDE

Title (de)

BINÄRE LEGIERUNGEN UND IHRE OXIDE ZUR ELEKTROKATALYTISCHEN REDUKTION VON KOHLENDIOXID

Title (fr)

ALLIAGES BINAIRES ET LEURS OXYDES POUR LA RÉDUCTION ÉLECTROCATALYTIQUE DU DIOXYDE DE CARBONE

Publication

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Application

EP 18853747 A 20180907

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Abstract (en)

[origin: WO2019051268A1] In one aspect, systems for providing oxygenated organic products are described. In some embodiments, a system comprises an electrochemical cell including an electrolyte solution comprising CO2, and an electrode comprising an alloy and/or mixture of metal oxides. The electrode comprises an electrocatalytic site for reduction of CO2 to CO, wherein CO is incorporated into the oxygenated organic products. In some embodiments, the alloy comprises at least one of a transition metal and post-transition metal. Moreover, metal oxides of the electrode can comprise at least one of a transition metal oxide and post-transition metal oxide.

IPC 8 full level

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Citation (search report)

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- [A] US 2015152564 A1 20150604 - SEKIMOTO TAKEYUKI [JP], et al
- See also references of WO 2019051268A1

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