

Title (en)

FORMATION OF FORMIC ACID WITH THE HELP OF INDIUM-CONTAINING CATALYTIC ELECTRODE

Title (de)

BILDUNG VON AMEISENSÄURE MIT HILFE EINER INDIUMHALTIGEN KATALYTISCHEN ELEKTRODE

Title (fr)

FORMATION D'ACIDE FORMIQUE À L'AIDE D'UNE ÉLECTRODE CATALYTIQUE CONTENANT DE L'INDIUM

Publication

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Application

EP 20824218 A 20201210

Priority

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- EP 2020085585 W 20201210

Abstract (en)

[origin: WO2021122323A1] Electrochemical conversion of CO₂ to formic acid or a salt thereof, using an indium containing catalytic electrode, comprising (a) electrochemically converting CO₂ to formic acid or a salt thereof by applying a voltage to an electrochemical cell comprising the catalytic electrode as cathode and an anode, wherein the electrochemical cell is fed with an electrolyte comprising CO₂; and (b) regenerating the catalytic electrode by lowering the voltage and subsequently washing the catalytic electrode with an aqueous liquid and exposing the catalytic electrode to air without applying voltage; and (c) optionally repeating steps (a) and (b).

IPC 8 full level

C25B 3/07 (2021.01); **C25B 3/26** (2021.01); **C25B 9/70** (2021.01); **C25B 15/00** (2006.01); **C25B 15/02** (2021.01)

CPC (source: EP US)

C25B 3/07 (2021.01 - EP US); **C25B 3/26** (2021.01 - EP US); **C25B 9/70** (2021.01 - EP US); **C25B 11/032** (2021.01 - US); **C25B 11/089** (2021.01 - US); **C25B 15/00** (2013.01 - EP); **C25B 15/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2021122323A1

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