

Title (en)

METHOD FOR THE ELECTROCHEMICAL CONVERSION OF ORGANIC COMPOUNDS CONTAINED IN RESIDUAL MATERIALS OR ARISING AS RESIDUAL MATERIALS AND USE OF A SINGLE-CHAMBER ELECTROLYTIC CELL DESIGNED AS A FLOW CELL FOR ELECTROCHEMICAL CONVERSION

Title (de)

VERFAHREN ZUR ELEKTROCHEMISCHEN KONVERTIERUNG VON IN RESTSTOFFEN ENTHALTENEN ODER ALS RESTSTOFFE ANFALLENDEN ORGANISCHEN VERBINDUNGEN UND VERWENDUNG EINER EINKAMMRIGEN ALS DURCHFLUSSZELLE KONZIPIERTEN ELEKTROLYSEZELLE ZUR ELEKTROCHEMISCHEN KONVERTIERUNG

Title (fr)

PROCÉDÉ DE CONVERSION ÉLECTROCHIMIQUE DE COMPOSÉS ORGANIQUES CONTENUS DANS DES RÉSIDUS OU RÉSULTANTS EN TANT QUE RÉSIDUS ET UTILISATION D'UNE CELLULE ÉLECTROLYTIQUE CONÇUE SOUS LA FORME D'UNE CELLULE D'ÉCOULEMENT MONO-CHAMBRE POUR LA CONVERSION ÉLECTROCHIMIQUE

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Application

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Abstract (en)

[origin: WO2017186682A1] The invention relates to a method for the electrochemical conversion of organic compounds contained in residual materials or arising as residual materials, wherein the residual materials are or become dissolved, suspended, or emulsified in an electrolyte solution and the electrolyte solution is alkaline or is made alkaline, wherein the electrolyte solution is continuously conducted into and out of at least one single-chamber electrolytic cell designed as a flow cell (2), which electrolytic cell has an electrode pack (6) comprising at least two contact electrodes (6a) connected to a voltage source (9), wherein the electrolyte solution flows through the electrode pack (6), and wherein a gaseous fuel is formed in the electrolytic cell from at least one of the organic compounds by setting process parameters, which fuel is discharged from and conducted away from the electrolytic cell.

IPC 8 full level

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Citation (search report)

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