

Title (en)

PAIRED ELECTROSYNTHESIS PROCESS FOR (CO)PRODUCTION HYDROXYLAMINE AND AMMONIA

Title (de)

VERFAHREN ZUR PAARWEISEN ELEKTROSYNTHESE ZUR (CO)HERSTELLUNG VON HYDROXYLAMIN UND AMMONIAK

Title (fr)

PROCÉDÉ D'ÉLECTROSYNTHÈSE APPARIÉE POUR (CO)PRODUCTION D'HYDROXYLAMINE ET D'AMMONIAC

Publication

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Application

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Priority

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Abstract (en)

The present invention is directed to a paired electrosynthesis process for the (co)production of hydroxylamine (HA) and/or ammonia out of N₂ or air and water. It further provides an electrolyzer developed for said purpose comprising both a porous cathode and anode with an effective catalyst layer and based on a continuous flow process. The process and electrolyzer of the present invention are particularly useful to efficiently convert reactants such as NO₃⁻, NO₂⁻, NO_x and N₂ at both, the cathode and anode.

IPC 8 full level

C25B 1/01 (2021.01); **C25B 1/27** (2021.01); **C25B 9/15** (2021.01); **C25B 9/19** (2021.01); **C25B 11/032** (2021.01); **C25B 11/073** (2021.01)

CPC (source: EP)

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Citation (search report)

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