

Title (en)  
SYSTEM AND METHOD FOR RECOVERING ENERGY

Title (de)  
SYSTEM UND VERFAHREN ZUR RÜCKGEWINNUNG VON ENERGIE

Title (fr)  
SYSTÈME ET PROCÉDÉ DE RÉCUPÉRATION D'ÉNERGIE

Publication  
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Application  
**EP 10734229 A 20100604**

Priority  
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Abstract (en)  
[origin: WO2010142893A1] The invention relates to a system (22) for recovering the energy released by at least one electrolysis tank (2), wherein the recovery system comprises a first heat exchange loop (28) through which a coolant flows, the first loop (26) including: a heat exchanger (36) through which the coolant flows; and a recovery unit (38) capable of recovering the heat of the coolant having passed through the heat exchanger (36); a primary collecting circuit (24) capable of collecting at least a portion of the fumes and gases generated by the electrolysis tank (2), the heat exchanger (36) being arranged outside and spaced apart from the electrolysis tank (2); wherein the fumes and gases collected by the primary circuit (24) pass through the heat exchanger (36) for heating the coolant.

IPC 8 full level  
**C25C 3/22** (2006.01)

CPC (source: EP)  
**C25C 3/22** (2013.01)

Citation (search report)  
See references of WO 2010142893A1

Citation (third parties)  
Third party :  
• FR 2262700 A1 19750926 - PECHINEY ALUMINIUM [FR]  
• US 4222841 A 19800916 - MILLER JOHN J  
• LORENTSEN O-A ET AL: "HANDLING C02EQ FROM AN ALUMINUM ELECTROLYSIS CELL", LIGHT METALS, 2009, pages 263 - 268, XP055080543  
• LANGE H.P. ET AL: "INNOVATIVE SOLUTIONS TO SUSTAINABILITY IN HYDRO", LIGHT METALS, 2008, pages 211 - 216, XP055080545

Cited by  
WO2020182776A1

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