

Title (en)  
METAL FREE AQUEOUS ELECTROLYTE ENERGY STORAGE DEVICE

Title (de)  
ENERGIESPEICHERVORRICHTUNG MIT METALLFREIEM WÄSSRIGEM ELEKTROLYT

Title (fr)  
DISPOSITIF DE STOCKAGE D'ÉNERGIE SANS MÉTAL À ÉLECTROLYTE AQUEUX

Publication  
**EP 2684245 A2 20140115 (EN)**

Application  
**EP 12754892 A 20120308**

Priority  
• US 201161450774 P 20110309  
• US 201113043787 A 20110309  
• US 2012028228 W 20120308

Abstract (en)  
[origin: WO2012122353A2] An electrochemical device including a housing and a stack of electrochemical cells in the housing. Each electrochemical cell includes an anode electrode, a cathode electrode, a separator located between the anode electrode and the cathode electrode and an electrolyte. The electrochemical device also includes a current collector located between adjacent electrochemical cells, an anode bus operatively connected to the anodes of the electrochemical cells in the stack and a cathode bus operatively connected to the cathodes of the electrochemical cells in the stack. The housing, the anode electrode, the cathode electrode, the separator, the anode bus and the cathode bus are non-metallic.

IPC 8 full level  
**H01M 10/12** (2006.01); **H01G 11/06** (2013.01); **H01G 11/12** (2013.01); **H01G 11/66** (2013.01); **H01M 4/50** (2010.01); **H01M 4/66** (2006.01); **H01M 4/68** (2006.01); **H01M 12/00** (2006.01); **H01M 50/121** (2021.01); **H01M 50/176** (2021.01); **H01M 50/528** (2021.01); **H01M 50/534** (2021.01); **H01M 50/54** (2021.01)

CPC (source: CN EP KR US)  
**H01G 11/06** (2013.01 - CN EP KR US); **H01G 11/12** (2013.01 - CN EP KR US); **H01G 11/32** (2013.01 - CN EP KR US); **H01G 11/46** (2013.01 - CN EP KR US); **H01G 11/66** (2013.01 - CN EP KR); **H01G 11/68** (2013.01 - CN EP KR US); **H01G 11/82** (2013.01 - CN EP KR US); **H01M 4/50** (2013.01 - CN EP KR); **H01M 4/64** (2013.01 - KR); **H01M 4/663** (2013.01 - CN EP KR); **H01M 4/667** (2013.01 - CN EP KR); **H01M 4/68** (2013.01 - KR); **H01M 10/12** (2013.01 - KR); **H01M 50/121** (2021.01 - CN EP KR US); **H01M 50/176** (2021.01 - CN EP KR US); **H01M 50/528** (2021.01 - CN EP KR); **H01M 50/534** (2021.01 - CN EP KR US); **H01M 50/54** (2021.01 - CN EP KR US); **H01M 2300/0002** (2013.01 - CN EP KR); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP KR)

Designated contracting state (EPC)  
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