

FP:(Enocell)

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Machine translation

1. [20170162871](#) BATTERY

US - 08.06.2017

Int.Class [H01M 4/48](#) Appl.No 15321248 Applicant Enocell Limited Inventor Donald MacPhee

A battery comprises electrodes formed from the same metal oxide and an electrolyte solution comprising a source of cations which can be intercalated into the metal oxide. The battery can store electrical charge by connecting one of the electrodes to an external power source to reduce at least some of the metal atoms in the metal oxide forming the electrode from a higher to a lower oxidation state through the uptake of intercalating cations from the electrolyte and thereby create a potential difference between the electrodes, which electrical charge can be discharged by electrically connecting the electrodes. The electrodes are preferably formed from a multi-valent transition metal oxide, such as a tungsten, vanadium, cobalt or molybdenum oxide, more preferably tungsten trioxide. The intercalating cations are preferably protons and the electrolyte an acid.

2. [3164877](#) BATTERY

EP - 10.05.2017

Int.Class [H01G 9/00](#) Appl.No 15750086 Applicant ENOCELL LTD Inventor MACPHEE DONALD

A battery comprises electrodes formed from the same metal oxide and an electrolyte solution comprising a source of cations which can be intercalated into the metal oxide. The battery can store electrical charge by connecting one of the electrodes to an external power source to reduce at least some of the metal atoms in the metal oxide forming the electrode from a higher to a lower oxidation state through the uptake of intercalating cations from the electrolyte and thereby create a potential difference between the electrodes, which electrical charge can be discharged by electrically connecting the electrodes. The electrodes are preferably formed from a multi-valent transition metal oxide, such as a tungsten, vanadium, cobalt or molybdenum oxide, more preferably tungsten trioxide. The intercalating cations are preferably protons and the electrolyte an acid.

3. [106471659](#) BATTERY

CN - 01.03.2017

Int.Class [H01M 10/04](#) Appl.No 201580036471.0 Applicant ENOCELL LTD Inventor MACPHEE DONALD

A battery comprises electrodes formed from the same metal oxide and an electrolyte solution comprising a source of cations which can be intercalated into the metal oxide. The battery can store electrical charge by connecting one of the electrodes to an external power source to reduce at least some of the metal atoms in the metal oxide forming the electrode from a higher to a lower oxidation state through the uptake of intercalating cations from the electrolyte and thereby create a potential difference between the electrodes, which electrical charge can be discharged by electrically connecting the electrodes. The electrodes are preferably formed from a multi-valent transition metal oxide, such as a tungsten, vanadium, cobalt or molybdenum oxide, more preferably tungsten trioxide. The intercalating cations are preferably protons and the electrolyte an acid.

4. [WO/2016/001692](#) BATTERY

WO - 07.01.2016

Int.Class [H01G 9/00](#) Appl.No PCT/GB2015/051955 Applicant ENOCELL LIMITED Inventor MACPHEE, Donald

A battery comprises electrodes formed from the same metal oxide and an electrolyte solution comprising a source of cations which can be intercalated into the metal oxide. The battery can store electrical charge by connecting one of the electrodes to an external power source to reduce at least some of the metal atoms in the metal oxide forming the electrode from a higher to a lower oxidation state through the uptake of intercalating cations from the electrolyte and thereby create a potential difference between the electrodes, which electrical charge can be discharged by electrically connecting the electrodes. The electrodes are preferably formed from a multi-valent transition metal oxide, such as a tungsten, vanadium, cobalt or molybdenum oxide, more preferably tungsten trioxide. The intercalating cations are preferably protons and the electrolyte an acid.

5. [2989971](#) BATTERY

CA - 07.01.2016

Int.Class [H01M 10/052](#) Appl.No 2989971 Applicant ENOCELL LIMITED Inventor

A battery comprises electrodes formed from the same metal oxide and an electrolyte solution comprising a source of cations which can be intercalated into the metal oxide. The battery can store electrical charge by connecting one of the electrodes to an external power source to reduce at least some of the metal atoms in the metal oxide forming the electrode from a higher to a lower oxidation state through the uptake of intercalating cations from the electrolyte and thereby create a potential difference between the electrodes, which electrical charge can be discharged by electrically connecting the electrodes. The electrodes are preferably formed from a multi-valent transition metal oxide, such as a tungsten, vanadium, cobalt or molybdenum oxide, more preferably tungsten trioxide. The intercalating cations are preferably protons and the electrolyte an acid.

6. [WO/2015/145135](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

WO - 01.10.2015

Int.Class [H01M 8/06](#) Appl.No PCT/GB2015/050874 Applicant ENOCELL LIMITED Inventor MACPHEE, Donald

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

7. [3123549](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

EP - 01.02.2017

Int.Class [H01M 8/0662](#) Appl.No 15722240 Applicant ENOCELL LTD Inventor MACPHEE DONALD

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

8. [20170092974](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

US - 30.03.2017

Int.Class [H01M 8/1039](#) Appl.No 15126720 Applicant Enocell Limited Inventor Donald MacPhee

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

9. [3123549](#) PROTONLEDENDE MEMBRAN OG BRÆNDSTOFCELLE OMFATTENDE SAMME

DK - 13.01.2020

Int.Class [H01M 8/0662](#) Appl.No 15722240 Applicant Enocell Limited Inventor MACPHEE, Donald

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

10. [106133974](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

CN - 16.11.2016

Int.Class [H01M 8/0668](#) Appl.No 201580015875.1 Applicant ENOCELL LTD Inventor MACPHEE DONALD

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

11. [201647035854](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

IN - 25.11.2016

Int.Class [H01M 8/06](#) Appl.No 201647035854 Applicant ENOCELL LIMITED Inventor MACPHEE Donald

A proton conducting membrane [16] for a fuel cell comprises light transmissive proton conducting material [102 104] and light scattering material [106] for scattering light within the membrane the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

12. [2974600](#) PROTON CONDUCTING MEMBRANE AND FUEL CELL COMPRISING THE SAME

CA - 01.10.2015

Int.Class [H01M 8/0668](#) Appl.No 2974600 Applicant ENOCELL LIMITED Inventor

A proton conducting membrane [16] for a fuel cell comprises light-transmissive proton conducting material [102, 104] and light scattering material [106] for scattering light within the membrane, the membrane further comprising a light guide [108] through which light can enter the membrane. Also disclosed is a fuel cell comprising the membrane.

