

Title (en)

ELECTRODE MADE WITH CATALYTIC POWDER

Title (de)

ELEKTRODE MIT KATALYTISCHEM PULVER HERGESTELLT

Title (fr)

ELECTRODE PRODUITE AVEC POUDRE CATALYTIQUE

Publication

EP 1235658 B1 20040721 (EN)

Application

EP 00973563 A 20001013

Priority

- US 0028563 W 20001013
- US 16054599 P 19991020

Abstract (en)

[origin: WO0128714A1] A catalytic powder comprising a plurality of support metal particles with a porous coating (12) surrounding the metal particles (11), the porous coating comprising either an electrocatalytic metal or an electrocatalytic metal continuous phase in admixture with a particulate material (14). An electrode made with the catalytic powder and a method to make the electrode is also disclosed. The present invention is advantageous because the porous coating mixture is first applied to a powder rather than being applied directly to a metal substrate, thereby creating a large internal surface area on the electrode and accordingly, lower overpotential requirements.

IPC 1-7

B22F 1/02; **B22F 3/11**; **C25B 11/03**; **C25B 11/04**

IPC 8 full level

B22F 1/148 (2022.01); **B22F 1/17** (2022.01); **B22F 3/11** (2006.01); **B22F 7/00** (2006.01); **C23C 30/00** (2006.01); **C25B 11/03** (2006.01); **C25B 11/04** (2006.01); **C25B 11/08** (2006.01)

CPC (source: EP US)

B22F 1/148 (2022.01 - EP US); **B22F 1/17** (2022.01 - EP US); **B22F 3/1103** (2013.01 - EP); **B22F 7/004** (2013.01 - EP); **C25B 11/03** (2013.01 - EP US); **C25B 11/095** (2021.01 - EP)

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

WO 0128714 A1 20010426; AU 1206301 A 20010430; BR 0015062 A 20020716; CA 2387563 A1 20010426; CN 1379703 A 20021113; DE 60012363 D1 20040826; DE 60012363 T2 20041209; EP 1235658 A1 20020904; EP 1235658 B1 20040721; JP 2003512520 A 20030402

DOCDB simple family (application)

US 0028563 W 20001013; AU 1206301 A 20001013; BR 0015062 A 20001013; CA 2387563 A 20001013; CN 00814520 A 20001013; DE 60012363 T 20001013; EP 00973563 A 20001013; JP 2001531535 A 20001013