

Title (en)  
ELECTRODE FREE FROM NOBLE METALS AND PROCESS FOR ITS MANUFACTURE

Publication  
**EP 0042984 B1 19830817 (DE)**

Application  
**EP 81104207 A 19810602**

Priority  
DE 3024611 A 19800628

Abstract (en)  
[origin: US4411761A] In an electrode suitable for electrolysis of aqueous sodium chloride or potassium chloride solutions, at least the outer layer contains spinels, specifically a mixture of the individual spinels of iron and of cobalt, the weight ratio of iron spinels: cobalt spinels being from 30:70 to 90:10. The electrodes are produced by applying a powder mixture of iron spinel and cobalt spinel to a substrate by a plasma spraying process wherein argon is used as the plasma gas and the spraying energy is from 6 to 30 kW.

IPC 1-7  
**C25B 11/04**; **C23C 17/00**

IPC 8 full level  
**C25B 11/06** (2006.01); **C23C 4/06** (2006.01); **C25B 11/04** (2006.01); **C25C 7/02** (2006.01); **C25B 1/34** (2006.01)

CPC (source: EP US)  
**C25B 11/091** (2021.01 - EP US)

Cited by  
DE102014001816A1; WO2015120971A1; DE102015014828A1; US11283077B2; DE102015010083A1; US11515557B2

Designated contracting state (EPC)  
BE DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0042984 A1 19820106**; **EP 0042984 B1 19830817**; DE 3024611 A1 19820128; DE 3160766 D1 19830922; JP S5739184 A 19820304; US 4411761 A 19831025

DOCDB simple family (application)  
**EP 81104207 A 19810602**; DE 3024611 A 19800628; DE 3160766 T 19810602; JP 9849281 A 19810626; US 27698581 A 19810624