

Title (en)

PT/AU ELECTRODES FOR THE PUMPING OUT OF O<sub>2</sub> AND METHOD FOR PRODUCTION THEREOF

Title (de)

PT/AU-ELEKTRODEN ZUM ABPUMPEN VON O<sub>2</sub> UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

ELECTRODES PT/AU POUR L'EVACUATION D'OXYGENE PAR POMPE ET PROCEDE POUR LEUR PRODUCTION

Publication

**EP 1297329 A1 20030402 (DE)**

Application

**EP 01984064 A 20010620**

Priority

- DE 0102281 W 20010620
- DE 10030939 A 20000624

Abstract (en)

[origin: WO0201216A1] The invention relates to an electrode which on use can selectively pump O<sub>2</sub> out of a gas mixture electrochemically, in the presence of other gas components containing oxygen, such as NO<sub>x</sub>. Said electrode comprises a Pt/Au electrode, the surface of which is impregnated with at least one compound of an alkali metal, an alkali earth metal, or a rare earth metal, preferably praseodymium. The electrode is produced whereby the Pt/Au electrode is brought into contact with a solution, which contains at least one compound of an alkali metal, alkali earth metal, or a rare earth metal, preferably praseodymium nitrate Pr(NO<sub>3</sub>)<sub>3</sub> and the excess solution removed.

IPC 1-7

**G01N 27/419**; G01N 27/407

IPC 8 full level

**G01N 27/41** (2006.01); **G01N 27/416** (2006.01); **G01N 27/419** (2006.01)

CPC (source: EP US)

**G01N 27/419** (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

Citation (search report)

See references of WO 0201216A1

Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

**WO 0201216 A1 20020103**; DE 10030939 A1 20020117; EP 1297329 A1 20030402; JP 2004502170 A 20040122; JP 4763220 B2 20110831; US 2003159924 A1 20030828

DOCDB simple family (application)

**DE 0102281 W 20010620**; DE 10030939 A 20000624; EP 01984064 A 20010620; JP 2002506098 A 20010620; US 31248703 A 20030331