

Title (en)  
Electrolytic cell for the production of gas

Title (de)  
Elektrolytische Zelle zur Gaserzeugung

Title (fr)  
Electrolyseur pour la production d'un gaz

Publication  
**EP 1577423 A2 20050921 (DE)**

Application  
**EP 05003729 A 20050222**

Priority  
• DE 102004013593 A 20040319  
• DE 102004032260 A 20040703

Abstract (en)  
Cells (I) for gas production (preferably for operating a lubricant dispenser), comprise two electrodes (1, 1'), which are connected at one end with a current source (2) containing electric circuit (3); and an azide compound containing aqueous electrolyte liquid (4) for electro-chemical production of a nitrogen (N<sub>2</sub>) gas is situated between the two electrodes. Cells (I) for gas production (preferably for operating a lubricant dispenser), comprises two electrodes (1, 1'), which are connected at one end with a current source (2) containing electric circuit (3); and an azide compound of formula (XN<sub>3</sub>) containing aqueous electrolyte liquid (4) for electro-chemical production of a nitrogen (N<sub>2</sub>) gas is situated between the two electrodes, where the electrolyte liquid contains a magnesium salt as additive for the chemical bond with the electro-chemical reaction resulting hydroxide ions.

Abstract (de)  
Die Erfindung betrifft eine Zelle zur Gaserzeugung, insbesondere für den Betrieb eines Schmierstoffspenders, mit zwei Elektroden (1, 1') zum Anschluss an einen Stromquelle (2) enthaltenden Stromkreis (3) und einer zwischen den beiden Elektroden (1, 1') befindlichen, ein Azid der Formel XN<sub>3</sub> enthaltenden, wässrigen Elektrolytflüssigkeit (4) zur elektrochemischen Erzeugung eines Stickstoff (N<sub>2</sub>) enthaltenden Gases. Erfindungsgemäß enthält die Elektrolytflüssigkeit (4) ein Magnesiumsalz als Zusatz zur chemischen Bindung von bei der elektrochemischen Reaktion entstehenden Hydroxid-Ionen.

IPC 1-7  
**C25B 9/00**; **C25B 1/00**

IPC 8 full level  
**C25B 1/00** (2006.01); **B65D 83/14** (2006.01); **C25B 9/00** (2006.01)

CPC (source: EP KR US)  
**A44B 19/265** (2013.01 - KR); **C25B 1/00** (2013.01 - EP US); **A45B 25/18** (2013.01 - KR)

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