

Title (en)
METAL VANADIUM OXIDE PARTICLES

Title (de)
METALLTEILCHEN MIT VANADIUMOXID

Title (fr)
PARTICULES METALLIQUES A L'OXYDE DE VANADIUM

Publication
EP 1163703 A4 20041229 (EN)

Application
EP 00905921 A 20000202

Priority
• US 0002653 W 20000202
• US 24607699 A 19990205
• US 31150699 A 19990513

Abstract (en)
[origin: WO0046867A1] Metal vanadium oxide particles have been produced with an average diameter less than about 500 nm. The metal vanadium oxide particles have very uniform properties. In some embodiments, silver vanadium oxide particles are formed by the heat treatment of a mixture of nanoscale vanadium oxide and a silver compound. Other metal vanadium oxide particles can be produced by similar processes. In other embodiments, laser pyrolysis is used to produce directly metal vanadium oxide composite nanoparticles. To perform the pyrolysis a reactant stream is formed including a vanadium precursor and a second metal precursor. The pyrolysis is driven by energy absorbed from a light beam. Metal vanadium oxide nanoparticles can be incorporated into a cathode of a lithium based battery to obtain increased energy densities. Implantable defibrillators can be constructed with lithium based batteries having increased energy densities.

IPC 1-7
H01M 4/58; H01M 4/34; C01F 1/00; H01B 1/02; C01G 31/00; C01G 31/02

IPC 8 full level
C01F 1/00 (2006.01); **C01G 31/00** (2006.01); **C01G 31/02** (2006.01); **H01B 1/02** (2006.01); **H01B 1/08** (2006.01); **H01M 4/131** (2010.01); **H01M 4/34** (2006.01); **H01M 4/48** (2006.01); **H01M 4/485** (2010.01); **H01M 6/16** (2006.01); **H01M 10/32** (2006.01); **H01M 10/40** (2006.01); **H01M 4/02** (2006.01); **H01M 4/54** (2006.01); **H01M 4/58** (2010.01); **H01M 10/052** (2010.01); **H01M 10/36** (2006.01)

CPC (source: EP KR)
B82Y 30/00 (2013.01 - EP); **C01G 31/00** (2013.01 - EP); **C01G 31/02** (2013.01 - EP); **H01M 4/131** (2013.01 - EP); **H01M 4/48** (2013.01 - KR); **H01M 4/485** (2013.01 - EP); **B82Y 40/00** (2013.01 - KR); **C01P 2002/72** (2013.01 - EP); **C01P 2002/88** (2013.01 - EP); **C01P 2004/03** (2013.01 - EP); **C01P 2004/04** (2013.01 - EP); **C01P 2004/62** (2013.01 - EP); **C01P 2004/64** (2013.01 - EP); **C01P 2006/40** (2013.01 - EP); **H01M 4/54** (2013.01 - EP); **H01M 4/5825** (2013.01 - EP); **H01M 10/052** (2013.01 - EP); **H01M 2004/021** (2013.01 - EP); **H01M 2004/028** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

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• [XA] EP 0776862 A1 19970604 - ENEL SPA [IT], et al
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• See references of WO 0046867A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 0046867 A1 20000810; CN 1343378 A 20020403; EP 1163703 A1 20011219; EP 1163703 A4 20041229; HK 1044631 A1 20021025; JP 2002536286 A 20021029; KR 20020018997 A 20020309

DOCDB simple family (application)
US 0002653 W 20000202; CN 00804664 A 20000202; EP 00905921 A 20000202; HK 02106124 A 20020821; JP 2000597850 A 20000202; KR 20017009899 A 20010804