

Title (en)  
BATTERY MONITORING SYSTEM

Title (de)  
BATTERIEÜBERWACHUNGSEINRICHTUNG

Title (fr)  
SYSTEME DE CONTROLE DE BATTERIES

Publication  
**EP 1040546 A4 20001122 (EN)**

Application  
**EP 98961698 A 19981119**

Priority  
• NZ 9800168 W 19981119  
• NZ 32921697 A 19971120

Abstract (en)  
[origin: WO9927628A1] An electronically controlled system for monitoring a battery bank, which has associated with each battery or small group of batteries or cells a measurement module which among other things measures the cell voltage and cell temperature, digitally encodes and serially transmits these values via an isolated bus to a central processing unit (CPU) which stores and analyses the values and provides an indication of the status of each battery and produces alarms when appropriate. Each measuring module will be kept in close physical proximity to the batteries it measures such that the temperature measurement requires no extra outboard circuitry and electrical isolation between the monitoring system and the battery voltage is provided as close to each battery cell as possible. A number of measurement modules may be connected to common buses and each central processing unit may receive inputs from more than one bus.

IPC 1-7  
**H02H 7/18**; **H02H 7/22**; **H02H 1/06**; **H02J 7/00**; **G01R 31/36**

IPC 8 full level  
**G01R 31/36** (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP US)  
**G01R 19/16542** (2013.01 - EP US); **G01R 31/367** (2018.12 - EP); **G01R 31/374** (2018.12 - EP); **G01R 31/396** (2018.12 - EP); **H02J 7/0013** (2013.01 - EP US); **H02J 7/0047** (2013.01 - EP US)

Citation (search report)  
• [X] US 5619417 A 19970408 - KENDALL JEFFREY M [US]  
• [X] DE 3800273 A1 19890720 - RUHRGAS AG [DE]  
• [X] US 5387871 A 19950207 - TSAI WEI-JEN [TW]  
• [A] US 4707795 A 19871117 - ALBER CARL H [US], et al  
• [A] WO 9117451 A1 19911114 - OGBORN ALWYN PETER [GB]  
• See references of WO 9927628A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)  
**WO 9927628 A1 19990603**; AU 1696199 A 19990615; AU 724902 B2 20001005; EP 1040546 A1 20001004; EP 1040546 A4 20001122

DOCDB simple family (application)  
**NZ 9800168 W 19981119**; AU 1696199 A 19981119; EP 98961698 A 19981119