

Title (en)  
APPARATUSES AND METHODS FOR SUPPLYING ELECTRICAL POWER TO AN ELECTROCRUSHING DRILL

Title (de)  
VORRICHTUNGEN UND VERFAHREN ZUR STROMVERSORGUNG EINES ELEKTROZERKLEINERUNGSBOHRERS

Title (fr)  
APPAREILS ET PROCÉDÉS D'ALIMENTATION EN ÉLECTRICITÉ DE TRÉPAN D'ÉLECTROCONCASSAGE

Publication  
**EP 2870316 A1 20150513 (EN)**

Application  
**EP 13812863 A 20130705**

Priority  

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- US 2013049466 W 20130705

Abstract (en)  
[origin: US2014008968A1] Methods and apparatuses for directly charging capacitors in a down-hole pulsed power system used for electrocrushing drilling. An above ground power supply is directly connected to the capacitors. The power supply can be a switching power supply, a DC supply, or an AC supply. Capacitor voltage is monitored and controlled. The system reduces noise caused by coupling control signal cables and the power cable, and does not have the ground swing control problems of other charging schemes. The power may alternatively be provided by microwave transmission.

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CPC (source: EP US)  
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**US 2014008968 A1 20140109**; AU 2013286589 A1 20150226; BR 112015000141 A2 20170627; BR 112015000141 B1 20220614; CA 2877788 A1 20140109; EP 2870316 A1 20150513; EP 2870316 A4 20160525; EP 2870316 B1 20191120; EP 3508683 A1 20190710; EP 3508683 B1 20201111; EP 3656970 A1 20200527; EP 3656970 B1 20220406; WO 2014008483 A1 20140109; ZA 201500803 B 20160330

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