

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

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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.

IPC 8 full level

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CPC (source: EP US)

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