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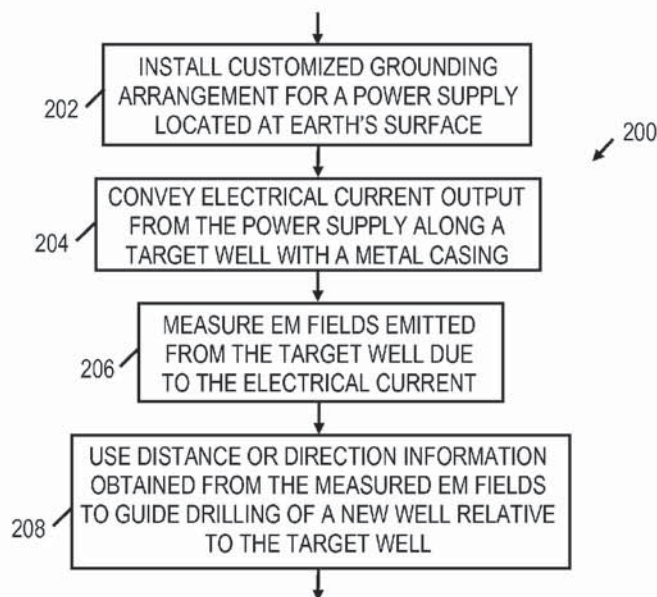


FIG. 6

(57) Abstract: A surface excitation ranging method includes installing a customized grounding arrangement for a power supply located at earth's surface, wherein the customized grounding arrangement fulfills an impedance criteria or ranging performance criteria. The method also includes conveying an electrical current output from the power supply along a target well with a metal casing. The method also includes sensing electromagnetic (EM) fields emitted from the target well due to the electrical current. The method also includes using distance or direction information obtained from the sensed EM fields to guide drilling of a new well relative to the target well.

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Request for Change Under Rule 92bis. 1(a)(i)

Date: July 25, 2017

Dear Examiner:

This request for a change is submitted under Rule 92bis. 1(a)(i). There is a typographical error in the Applicant's name in the PCT bibliographic data. The bibliographic data currently recites "Halliburton Energy Service, Inc." The applicant name provided on the RO101 recites "Halliburton Energy Services, Inc." Applicant respectfully requests the Examiner to correct the Applicant's name. If the Examiner feels that a telephone conference would expedite the resolution of this case, the Examiner is respectfully requested to contact the undersigned.

Respectfully submitted,

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