

THERMOELECTRIC GENERATOR FOR USE WITH WELLBORE DRILLING EQUIPMENT

ABSTRACT

5 The present invention relates generally to electrical power thermoelectric power generation in a wellbore for supplying power and charging downhole loads. A power generation assembly is disclosed including at least one thermoelectric generator disposed in a drill string for supplying power and charging downhole tools, the assembly utilizing the heat energy from the drilling fluid flowing in an annulus of the wellbore to generate a voltage potential across the thermoelectric generator.

[Figure 1]