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The invention relates to the power engineering, in particular to devices for thermal-to-electric power direct conversion. The process for increasing the thermocouple thermoelectric coefficient consists in that it is acted by an electrostatic field on a thermocouple with longitudinal temperature gradient. Novelty of the invention consists in that the thermocouple contains a cylindrical semiconductor microthread, enclosed into a glass insulation, at the same time the plus or minus polarity of the electrostatic field is applied to the semiconductor microthread of n or p type correspondingly, and the polarity of the electrostatic field minus or plus, respectively - to a metal electrode, coaxially deposited onto the glass insulation of the microthread.

Claims: 1

Fig.: 4