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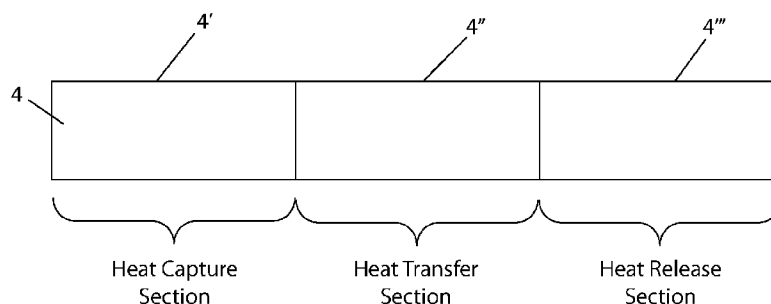
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Fig. 29



(57) Abstract: Embodiments of the invention provide systems and methods for heat transfer at temperatures in the range of -40 °C to 1,300 °C over long distances with minimal heat losses. The systems consist of advanced heat pipes configured such that they fit in-
side drilling holes or in horizontal distance over industrial plants, and effectively transfer heat requiring minimal water, CO₂, or
steam injection, and that operate without user intervention for many years.

