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(54) Title: PEDESTAL HEATER WITH SUBSTRATE TEMPERATURE MEASUREMENT SYSTEM

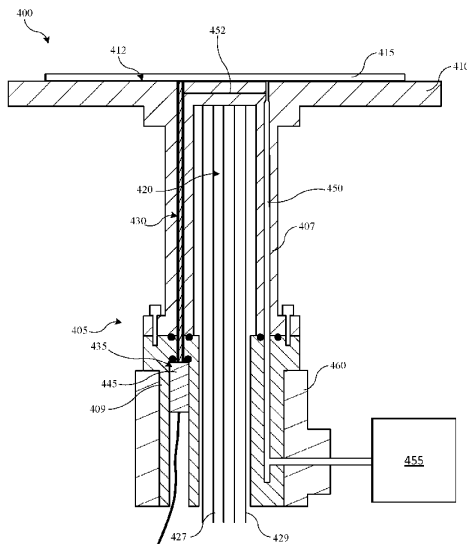


FIG. 4

(57) Abstract: Exemplary substrate support assemblies may include a support plate that comprises a substrate support surface. The assemblies may include a support stem coupled with the support plate. A channel may be defined through at least a portion of a length of the support stem and extends through the substrate support surface. A temperature sensor assembly may be disposed within the channel. The temperature sensor assembly may include a light pipe disposed within the channel such that a top end of the light pipe extending through at least a portion of the support plate. The temperature sensor assembly may include a sensor that is coupled with a bottom end of the light pipe.

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