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(54) **Title:** POROUS SHOWERHEAD FOR A PROCESSING CHAMBER

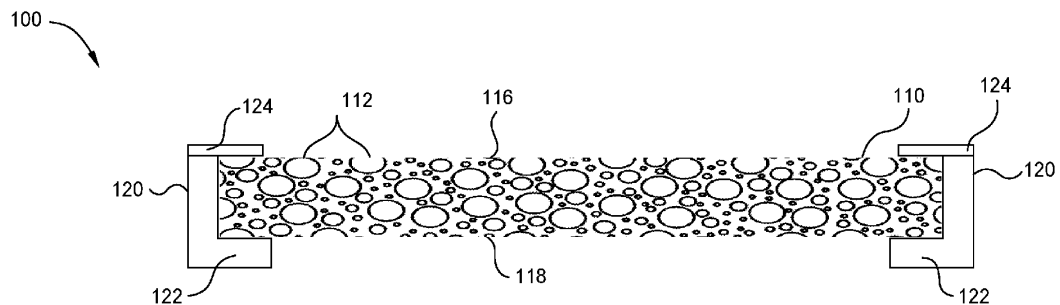


FIG. 1

(57) **Abstract:** A showerhead assembly includes a support structure and a porous plate. The support structure includes a support feature. The porous plate has a thermal conductivity of at least about 50 W/(mK) and includes a plurality of pores having an average diameter of less than about 100 μ m, wherein at least a portion of a perimeter of the porous plate rests on the support feature. The showerhead may be included within a processing chamber that is utilized to process a substrate.

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