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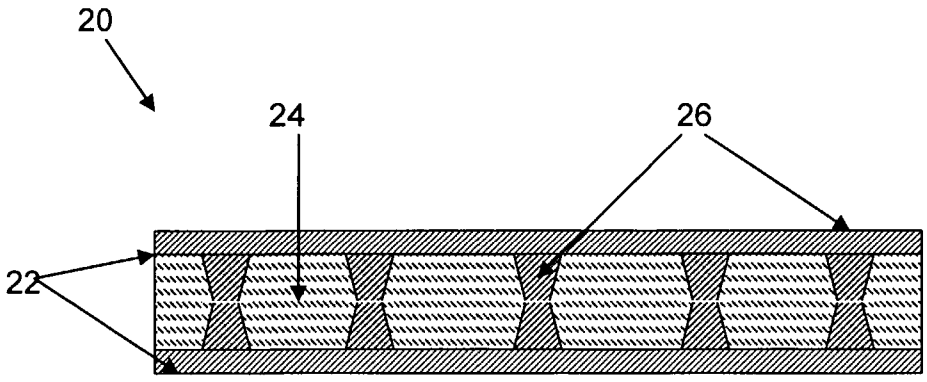
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(54) **Title:** REFRACTORY METAL SUBSTRATE WITH IMPROVED THERMAL CONDUCTIVITY



(57) **Abstract:** A substrate for semiconductor and integrated circuit components including: a core plate containing a Group VIB metal from the periodic table of the elements and/or an anisotropic material, having a first major surface and a second major surface and a plurality of openings extending, at least partially, from the first major surface to the second major surface; and a Group IB metal from the periodic table of the elements or other high thermally conductive material filling at least a portion of the space encompassed by at least some of the openings; and optionally, a layer containing a Group IB metal from the periodic table or other high thermally conductive material disposed over at least a portion of the first major surface and at least a portion of the second major surface.

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