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(54) **RECUPERATOR AND COMBUSTOR FOR USE IN EXTERNAL COMBUSTION ENGINES AND SYSTEM FOR GENERATING POWER EMPLOYING SAME**

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(57) **ABSTRACT**

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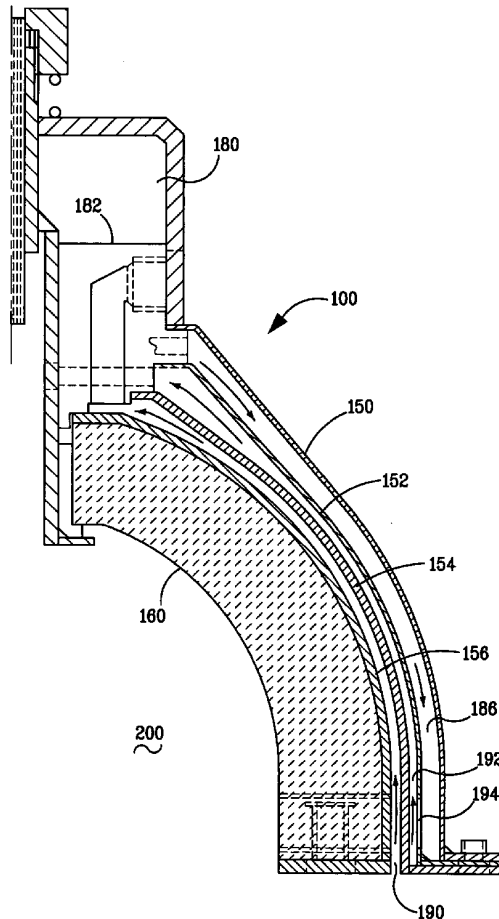
A combustor/recuperator assembly for use in an external combustion engine, such as a Stirling engine. The assembly includes a plurality of substantially hemispherical domed members positioned in nested uniaxial spaced relation, the plurality of substantially hemispherical domed members forming at least a first flow chamber and a second flow chamber, the first flow chamber for passing an incoming charge of air therethrough and the second flow chamber for passing an outgoing charge of combustion exhaust gases therethrough, wherein the second chamber is positioned to be effective to heat the incoming charge of air. Also provided is a system for producing power from a source of liquid fuel. The system is capable of producing up to about 5,000 watts of mechanical or electrical power.

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**Related U.S. Application Data**

(60) Provisional application No. 60/484,508, filed on Jul. 1, 2003.



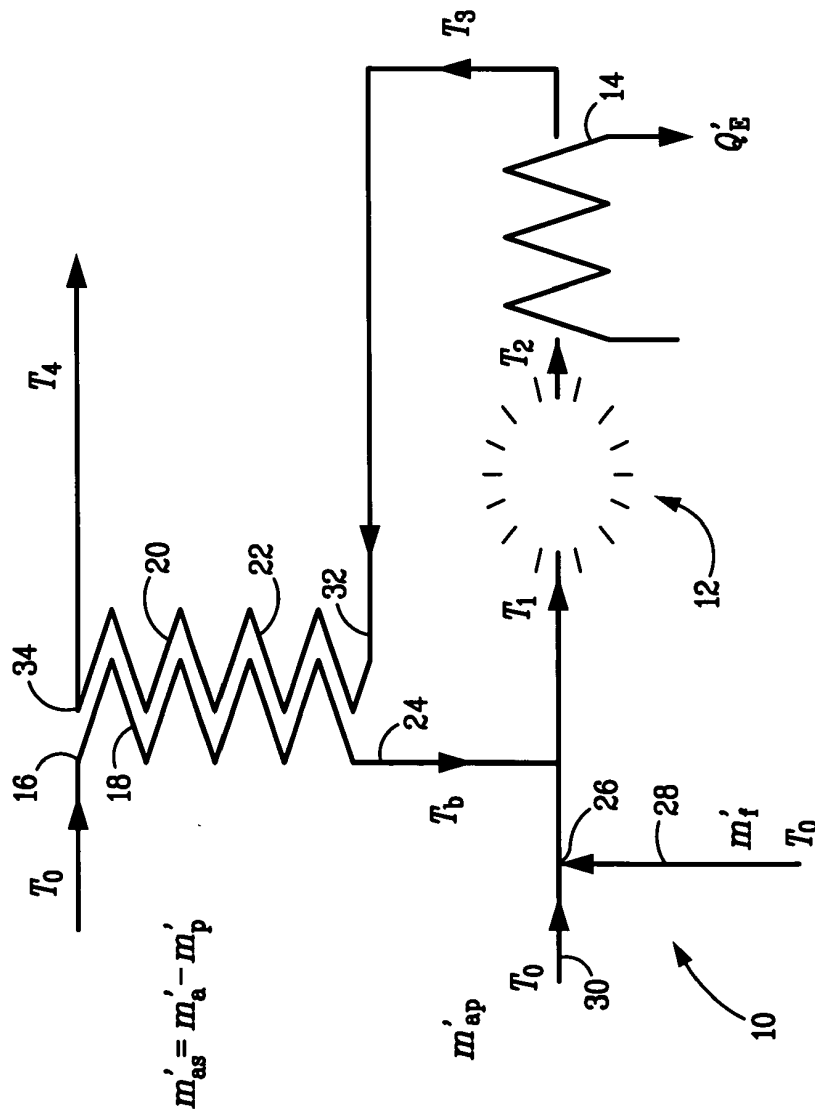


FIG. 1

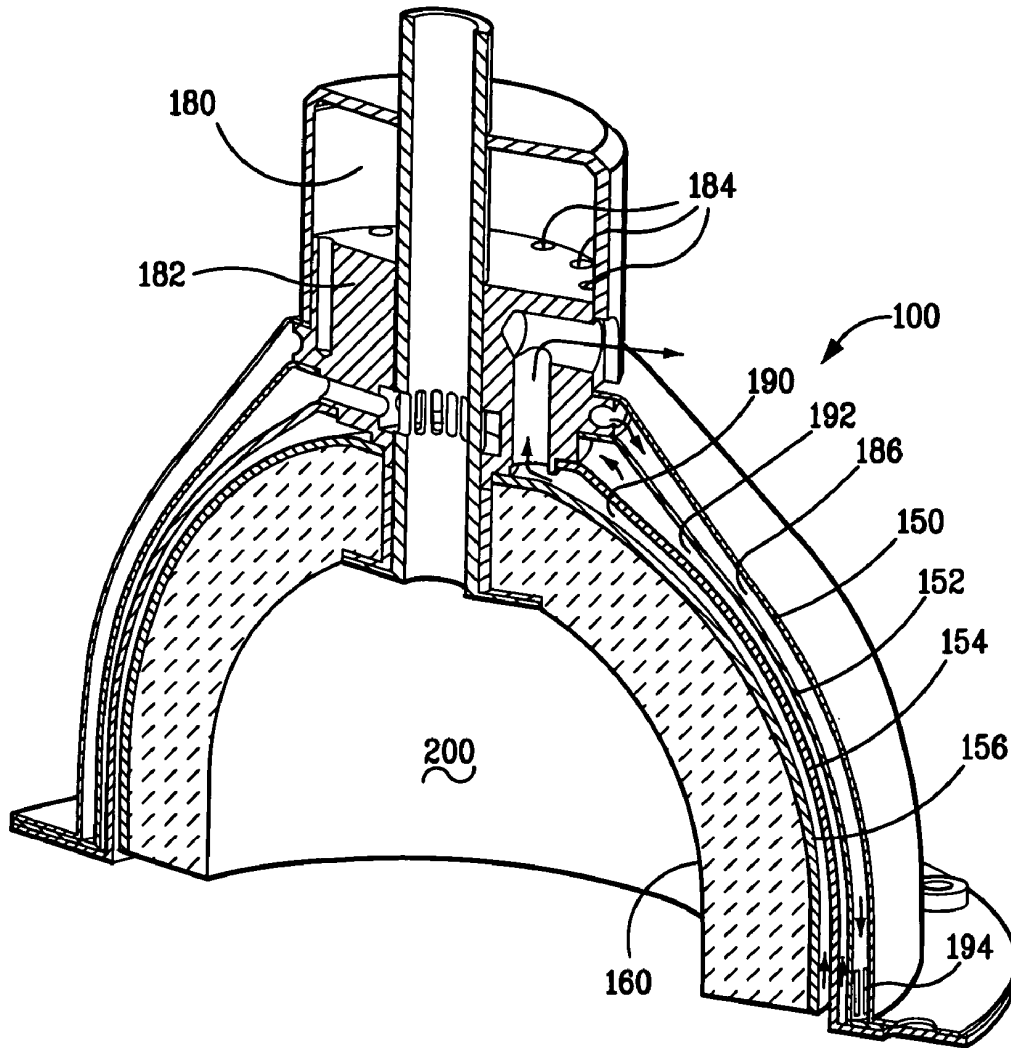
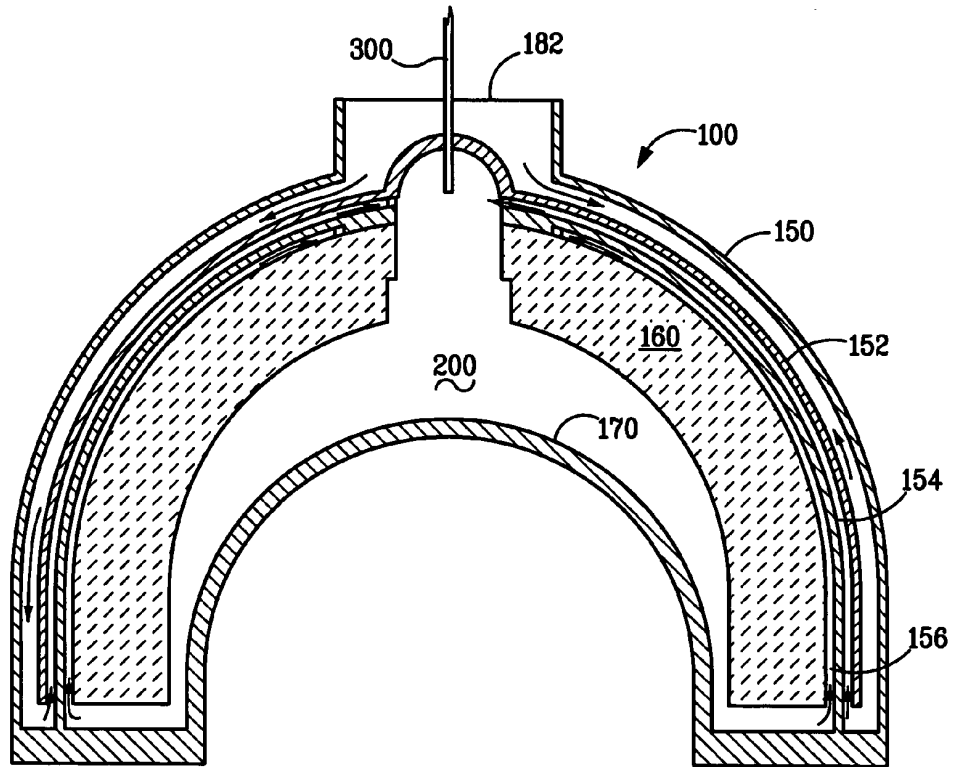
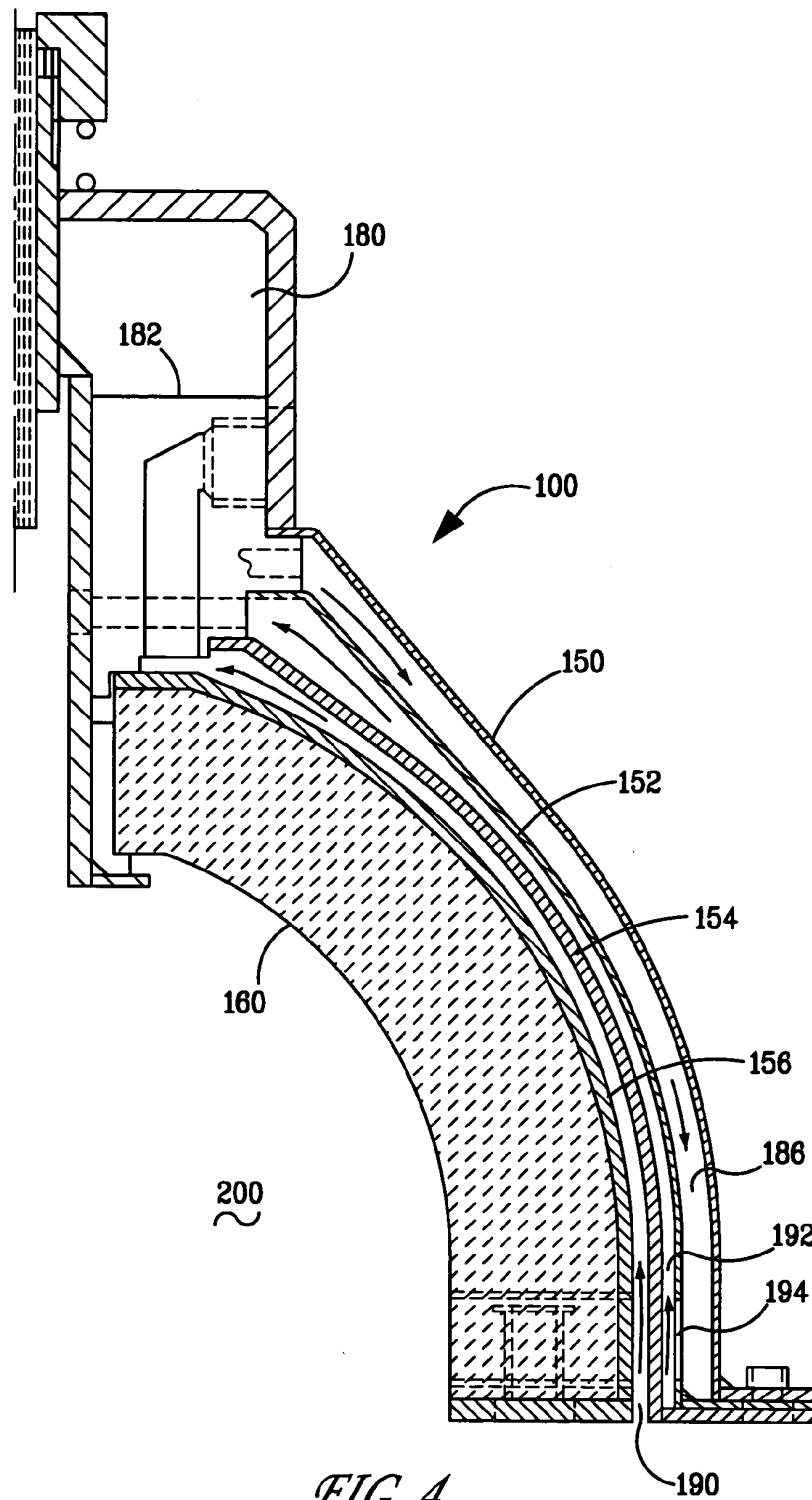


FIG. 2



*FIG. 3*



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