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whereby each washer is supported upon shoulders formed by the adjacent rings.

4. In the microcalorimeter defined in claim 3, wherein each thermocouple washer includes:

wrappings of thermocouple wire about the washer, with one side presenting a metallic surface differing from the metallic surface of the other side.

5. In the microcalorimeter defined in claim 1, wherein:

the reaction cell is extended substantially the length of the thermopile; and

a charge means at the top of the cell adapted to drop materials into the cell for carrying out measurements.

6. In the microcalorimeter defined in claim 5, including:

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a stepped member within the reaction cell adapted to facilitate stirring the charge as it drops into the reaction cell.

7. In the microcalorimeter defined in claim 5, wherein:

the charge means is a cylindrical, end-closed member having an open end which fits over the opening of the reaction cell.

8. In the microcalorimeter defined in claim 7, including:

a diaphragm within the charge-means cup adapted to retain a charge of material at the top portion of the cup when it is fitted upon the reaction cell; and means to disrupt the diaphragm to permit the same to drop the charge into the reaction cell.

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