

(54) Title of the invention : MULTI-PURPOSE STIRRED CELL SS REACTOR FOR GAS-LIQUID KINETIC AND THERMODYNAMICS STUDY.

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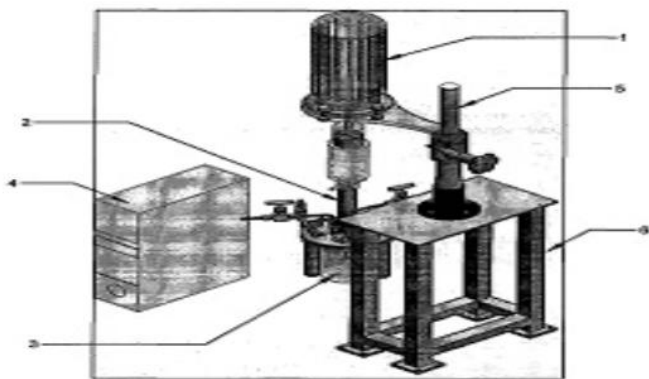
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(57) Abstract :

The titled invention Multi-Purpose Stirred Cell SS Reactor for gas-liquid Kinetic and Thermodynamics study discloses the design to lower the cost of equipment for making it multipurpose operation/use, to lower the Energy input per observation/Study and to minimize the man-hour requirement per observation/Study. The achieve a robust customized equipment set up using world class components. The present invention describes a dual purpose stirred cell reactor which can be simultaneously used for a gas-liquid rate kinetic and thermodynamic equilibrium, solubility measurement. The system consists of stainless steel reactor aided with magnetically coupled turbine impeller for gas phase stirring. The liquid phase is stirred using magnetic stirrer. The reactor is equipped with flange made of stainless steel. The flange consists of various ports facilitating the monitoring of pressure, temperature as well as provision for solvent inlet. The operating parameters can be monitored using the attached Pressure and Temperature sensors.

FIGURE : 1



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