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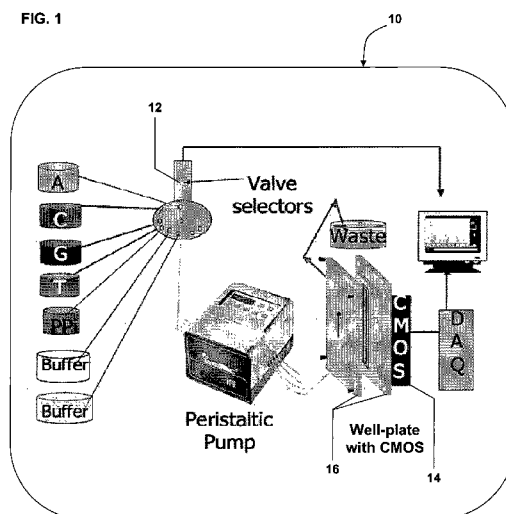
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) Title: INTEGRATED MICROFLUIDIC AND SOLID STATE PYROSEQUENCING SYSTEMS

FIG. 1



(57) Abstract: The invention provides for sequencing a nucleic acid molecule based on the detection of base incorporation by the release of pyrophosphate (PPi) using a new enzyme system comprising adenosine diphosphate (ADP)-glucose pyrophosphorylase (AGPase) and its substrate ADP-glucose.