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— *as to the identity of the inventor (Rule 4.17(i))*
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

(54) Title: A SYSTEM AND METHOD OF PERFORMING A BIOLOGICAL EXPERIMENT WITH ADAPTIVE CYBERNETIC CONTROL OF PROCEDURAL CONDITIONS

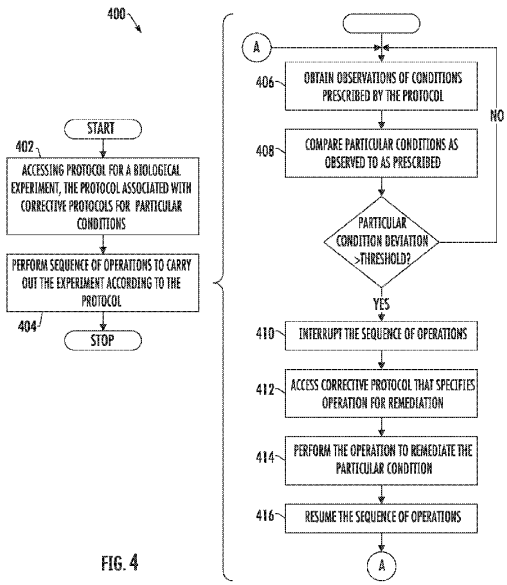


FIG. 4

(57) Abstract: A method for performing a biological experiment includes accessing a protocol that specifies operations and prescribes a plurality of conditions for carrying out the biological experiment in a defined space. The method includes performing the sequence of operations according to the protocol; and periodically before or as the sequence of operations are performed, obtaining observations of particular conditions of the plurality, and comparing the particular conditions as observed to the particular conditions as prescribed. When a particular condition as observed deviates from the as prescribed by more than a predetermined threshold for the particular condition, the method includes interrupting the sequence of operations, accessing a corrective protocol that specifies an operation for remediating the particular condition as observed to within the predetermined threshold of the particular condition as prescribed, performing the operation to remediate the particular condition according to the corrective protocol, and resuming the sequence of operations.

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