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(54) **Title:** A SYSTEM AND METHOD FOR SELF-ADAPTIVE AND AUTONOMOUS SHARDING OF DISTRIBUTED LEDGER TECHNOLOGY PLATFORMS

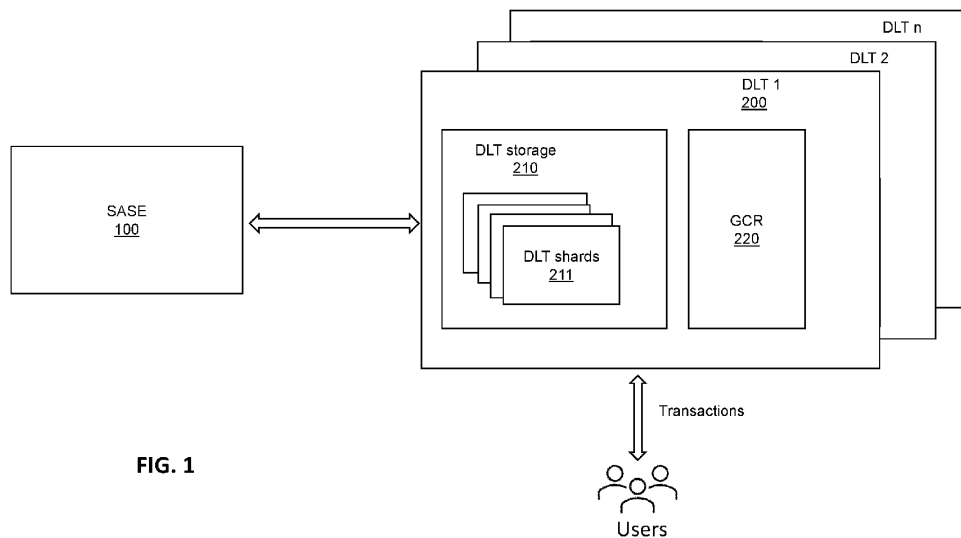


FIG. 1

(57) **Abstract:** The present disclosure provides a self-adaptive sharding engine, SASE, (100), which is configured to dynamically adapt the configuration of connected DLT platforms (200) to ensure that their operational performance is maintained within target levels. The SASE 100 is provided with a decision and optimisation, DO, module (110) that is configured to receive and process a set of configuration parameters obtained from a sensor module (130) to determine a set of corresponding performance metrics indicative of the operational performance of the target DLT platform. The DO module 110 is configured to compare the values of the performance metrics with corresponding target values. Accordingly, when at least one of the performance metrics is within a value range from at least one corresponding target value, the DO module (110) is configured to adjust an aspect of the DLT configuration of the DLT platform (200) to optimise its operational performance.

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