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(54) Title: LOW COMMUNICATION DISTRIBUTED SYSTEMS

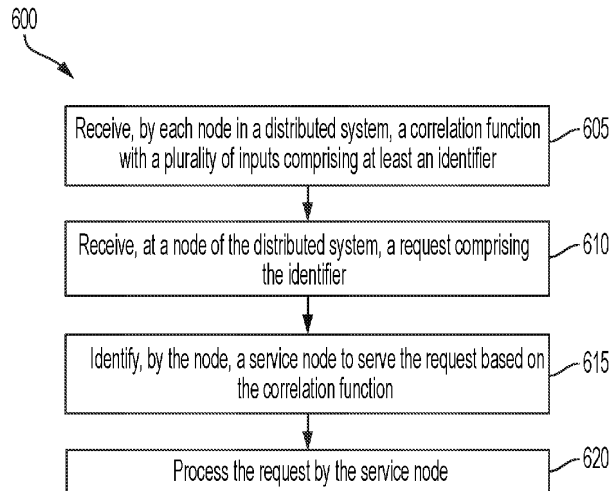


FIG. 6

(57) Abstract: Systems and methods for low communication distributed systems are disclosed. An example method can comprise receiving, by each node in a distributed system, a correlation function with a plurality of inputs comprising at least an identifier; receiving, at a node of the distributed system, a request comprising the identifier; identifying, by the node, a service node to serve the request based on the correlation function, the identifying comprising determining, by the node, based on a status of the node, the status of other nodes in the distributed system; determining a local state, based on at least one of the status of the node, the status of the other nodes, or a number of nodes in the distributed system; and calculating, based on the local state and the plurality of inputs, a target response that identifies the service node; and processing the request by the service node.

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