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[Continued on next page]

- (54) **Title:** MANAGING NETWORKS AND MACHINES FOR AN ONLINE SERVICE

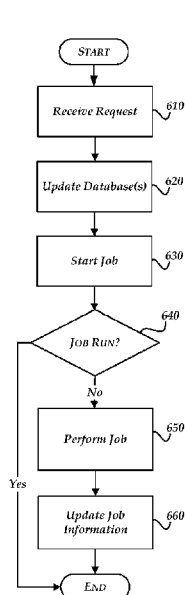


Fig. 6

(57) **Abstract:** A cloud manager assists in deploying and managing networks for an online service. The cloud manager system receives requests to perform operations relating to configuring, updating and performing tasks in networks that are used in providing the online service. The management of the assets may comprise deploying machines, updating machines, removing machines, performing configuration changes on servers, Virtual Machines (VMs), as well as performing other tasks relating to the management. The cloud manager is configured to receive requests through an idempotent and asynchronous application programming interface (API) that can not rely on a reliable network.





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