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(54) **METHODS FOR MANAGING HARDWARE SECURITY SERVERS AND DEVICES THEREOF**

(71) Applicant: **F5, Inc.**, Seattle, WA (US)

(72) Inventors: **Liang CHENG**, Seattle, WA (US);
Saxon C. Amdahl, Seattle, WA (US)

(57) **ABSTRACT**

Methods, non-transitory computer readable media, network traffic manager apparatuses, and systems that assist with managing hardware security servers includes receiving a request from a client. The request can comprise of a unique numerical handle and a command for a hardware security server. The unique numerical handle can be generated as a response to a previous request from the client. It can further include searching for a key handle mapped to the unique numerical handle and hardware security server in memory. The method can also include sending the request to the hardware security server with the key handle when the key handle is retrieved from memory during the search and sending a response received from the hardware security server to the client. The response can be received as a result of sending the request to the hardware security server.