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- (71) **Applicant (for all designated States except US):**
AMAZON TECHNOLOGIES, INC. [US/US]; P.O. Box 8102, Reno, Nevada 89507 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **SIVASUBRAMANIAN, Swaminathan** [IN/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **STEFANI, Stefano** [US/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **BURAGOHAIN, Chiranjeeb** [IN/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **BLACKMAN, Rande, A.** [US/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **RATH, Timothy, Andrew** [US/US]; 410 Terry Av-

enue North, Seattle, Washington 98109-5210 (US). **BRADFORD, Raymond, S.** [US/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **MCALISTER, Grant, A., M.** [CA/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **KULESZA, Jakub** [CA/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **HAMILTON, James** [US/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US). **CABRERA, Luis, Felipe** [US/US]; 410 Terry Avenue North, Seattle, Washington 98109-5210 (US).

(74) **Agent:** **KOWERT, Robert, C.**; Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., P.O. Box 398, Austin, Texas 78767-0398 (US).

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(54) **Title:** SYSTEM AND METHOD FOR IMPLEMENTING A SCALABLE DATA STORAGE SERVICE

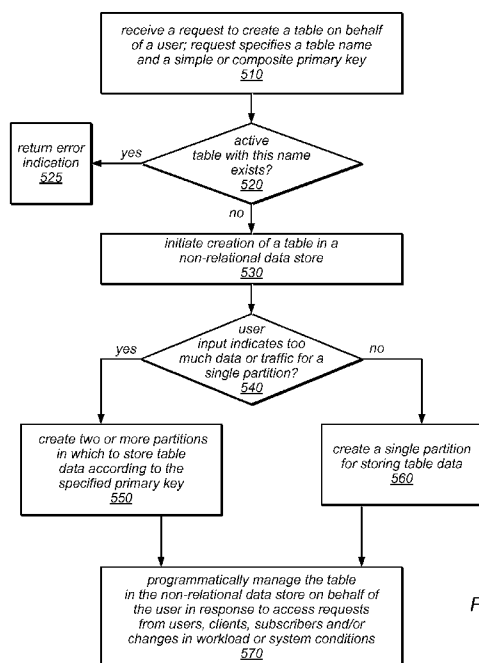


FIG. 5

(57) **Abstract:** A system that implements a scalable data storage service may maintain tables in a non-relational data store on behalf of clients. The system may provide a Web services interface through which service requests are received, and an API usable to request that a table be created, deleted, or described; that an item be stored, retrieved, deleted, or its attributes modified; or that a table be queried (or scanned) with filtered items and/or their attributes returned. An asynchronous workflow may be invoked to create or delete a table. Items stored in tables may be partitioned and indexed using a simple or composite primary key. The system may not impose pre-defined limits on table size, and may employ a flexible schema. The service may provide a best-effort or committed throughput model. The system may automatically scale and/or re-partition tables in response to detecting workload changes, node failures, or other conditions or anomalies.



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