

# (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2024/0214473 A1 GOLUBOVSKY et al.

#### Jun. 27, 2024 (43) **Pub. Date:**

## (54) SYSTEMS AND METHODS OF COMMUNICATING ELECTRONIC DATA TRANSACTION UPDATES TO CLIENT COMPUTER SYSTEMS

(71) Applicant: **NASDAQ INC.**, New York, NY (US)

(72) Inventors: Leo GOLUBOVSKY, Franklin Lakes, NJ (US); Michael WOOD, New City, NY (US); Jonathan WAKEFIELD,

Chatham, NJ (US)

Appl. No.: 18/596,424

(22)Filed: Mar. 5, 2024

## Related U.S. Application Data

- (63) Continuation of application No. 18/055,147, filed on Nov. 14, 2022, now Pat. No. 11,943,325, which is a continuation of application No. 17/149,433, filed on Jan. 14, 2021, now Pat. No. 11,516,316, which is a continuation of application No. 16/017,609, filed on Jun. 25, 2018, now Pat. No. 10,924,592.
- (60) Provisional application No. 62/524,404, filed on Jun. 23, 2017.

### **Publication Classification**

(51)Int. Cl. H04L 69/08 (2006.01)G06F 16/958 (2006.01)G06F 21/62 (2006.01)G06Q 40/04 (2006.01)H04L 9/40 (2006.01)H04L 69/18 (2006.01)

U.S. Cl. CPC ...... H04L 69/08 (2013.01); G06F 16/958 (2019.01); G06F 21/6218 (2013.01); G06Q 40/04 (2013.01); H04L 63/0414 (2013.01); H04L 69/18 (2013.01)

#### (57)ABSTRACT

A computer system is provided that includes a storage system, at least one transceiver, and a processing system with at least one hardware processor. The storage system stores a first list pair. The transceiver receives electronic data messages that each include a respective data transaction request. The processing system determines how the new data transaction request should be processed based on which communication protocol was used to submit the request. Updates regarding the first list pair are sent out to non-party client computer systems using different communication protocols, where one is faster than the other, but the slower update includes private data therein.

