

Early Standardise, Enrich & Correlate (ESEC)

Components that standardise structured events according to the Senseon Data Model (SDM) as described by protobuf schemas, enrich events with on-appliance datasets and perform small time window correlation of events with one another.

Coal-face Producers

Components that convert 'raw' data (such as captured packets) to structured events in JSON.

Distributed Message Queue

A broker-less message queue 106 distributed across n worker appliances ($w=0...n-1$)

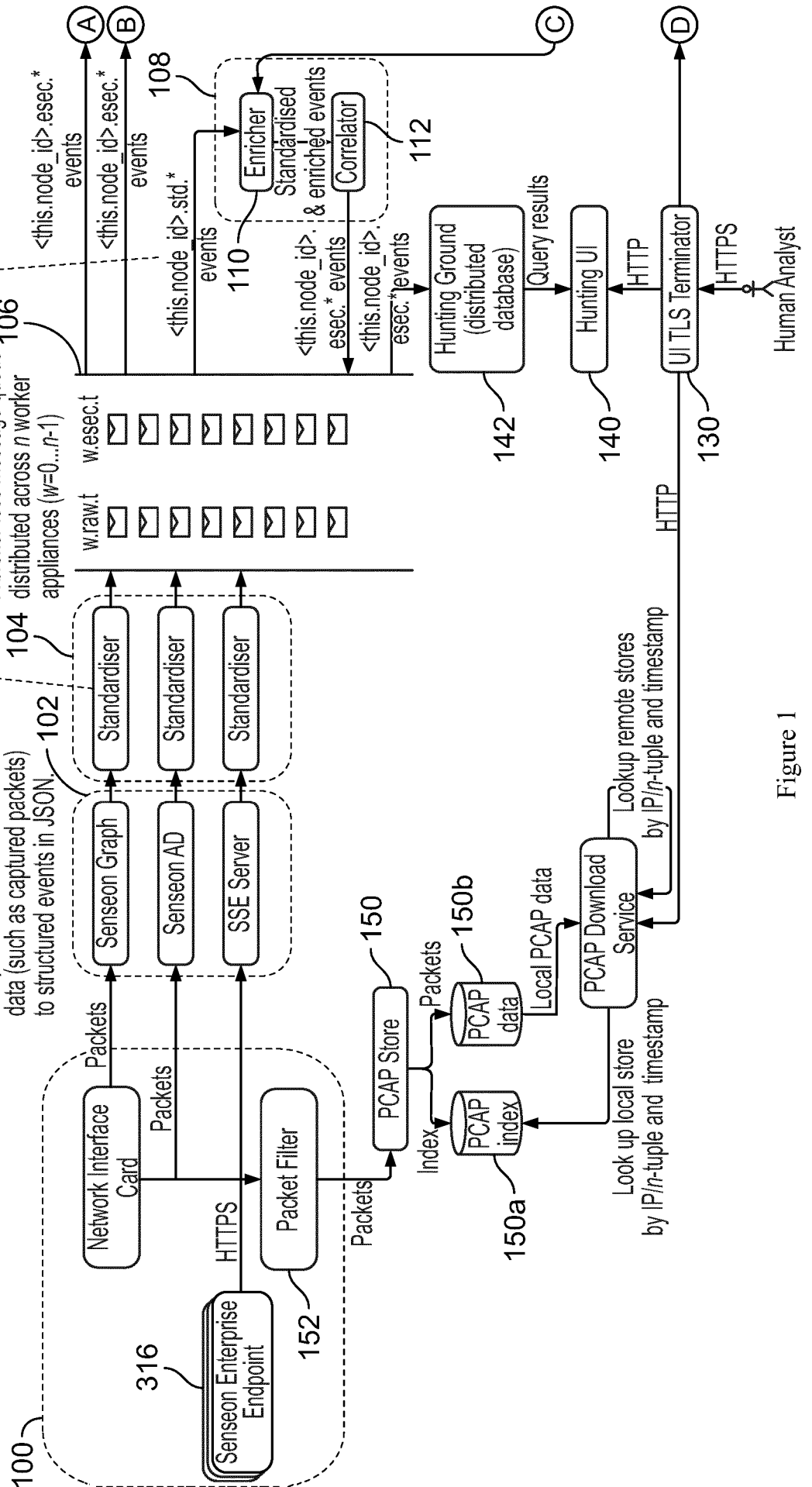


Figure 1

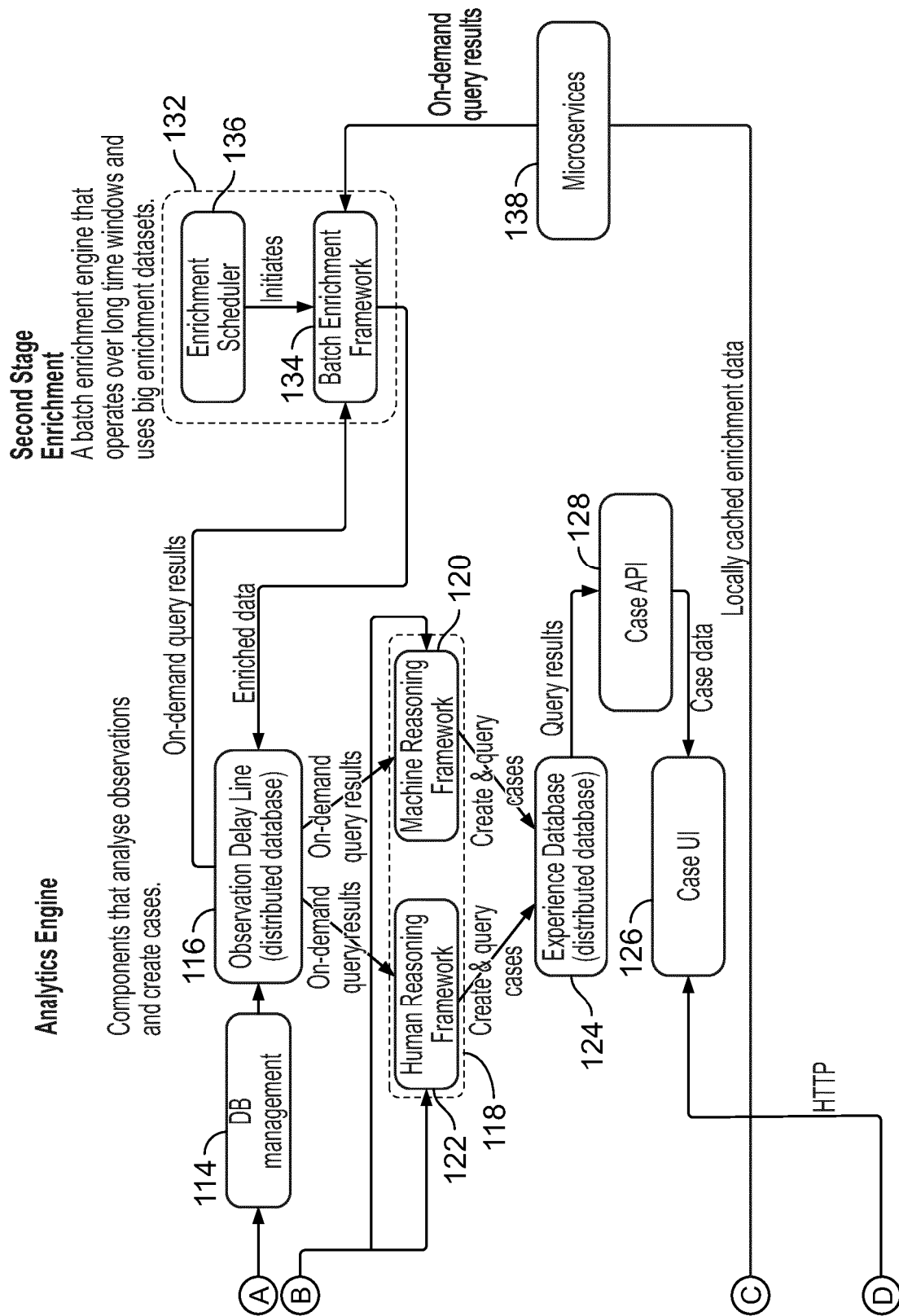


Figure 1 (continued)

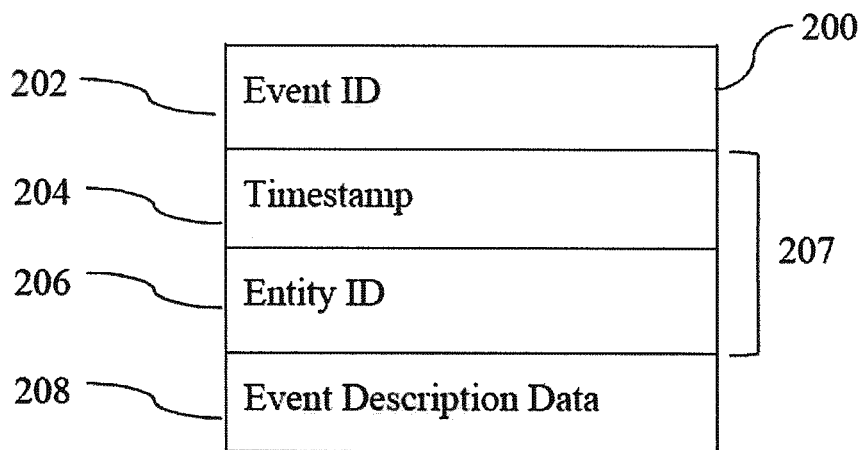


Figure 2

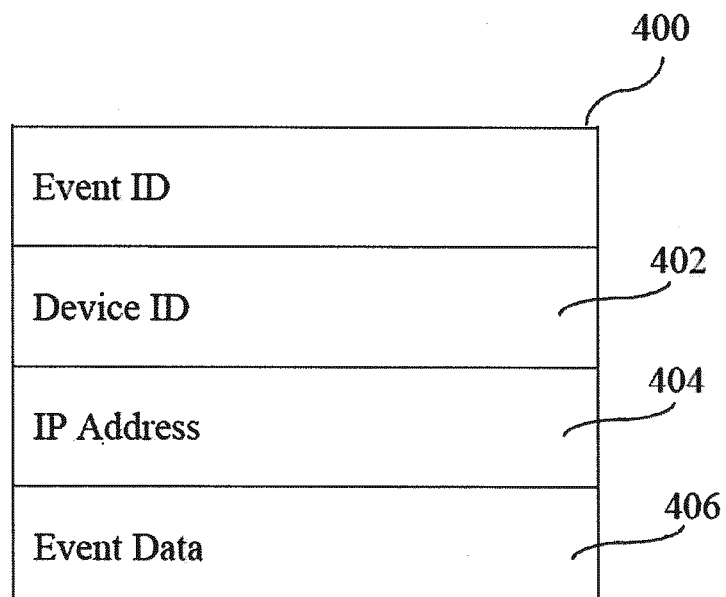


Figure 4

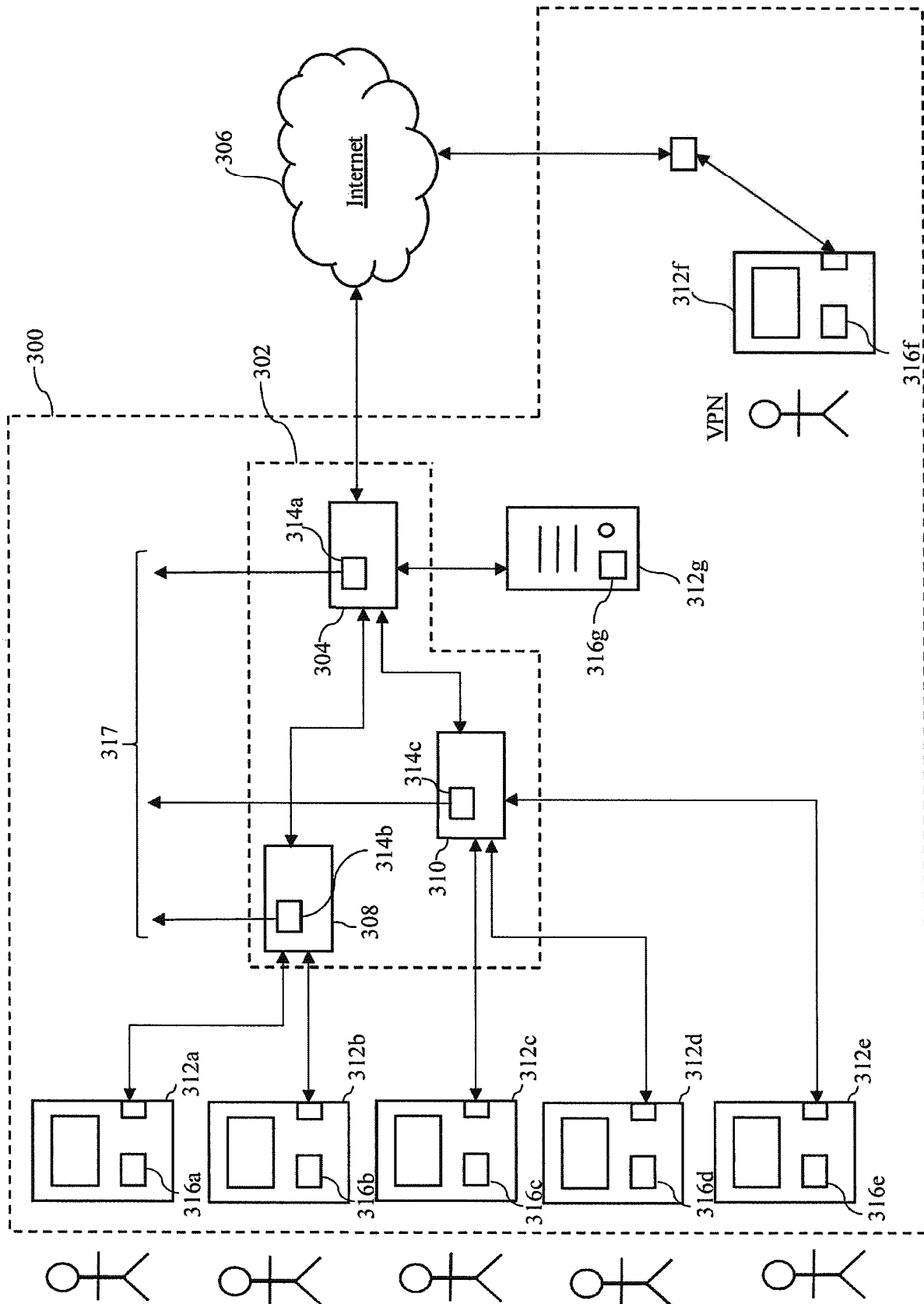
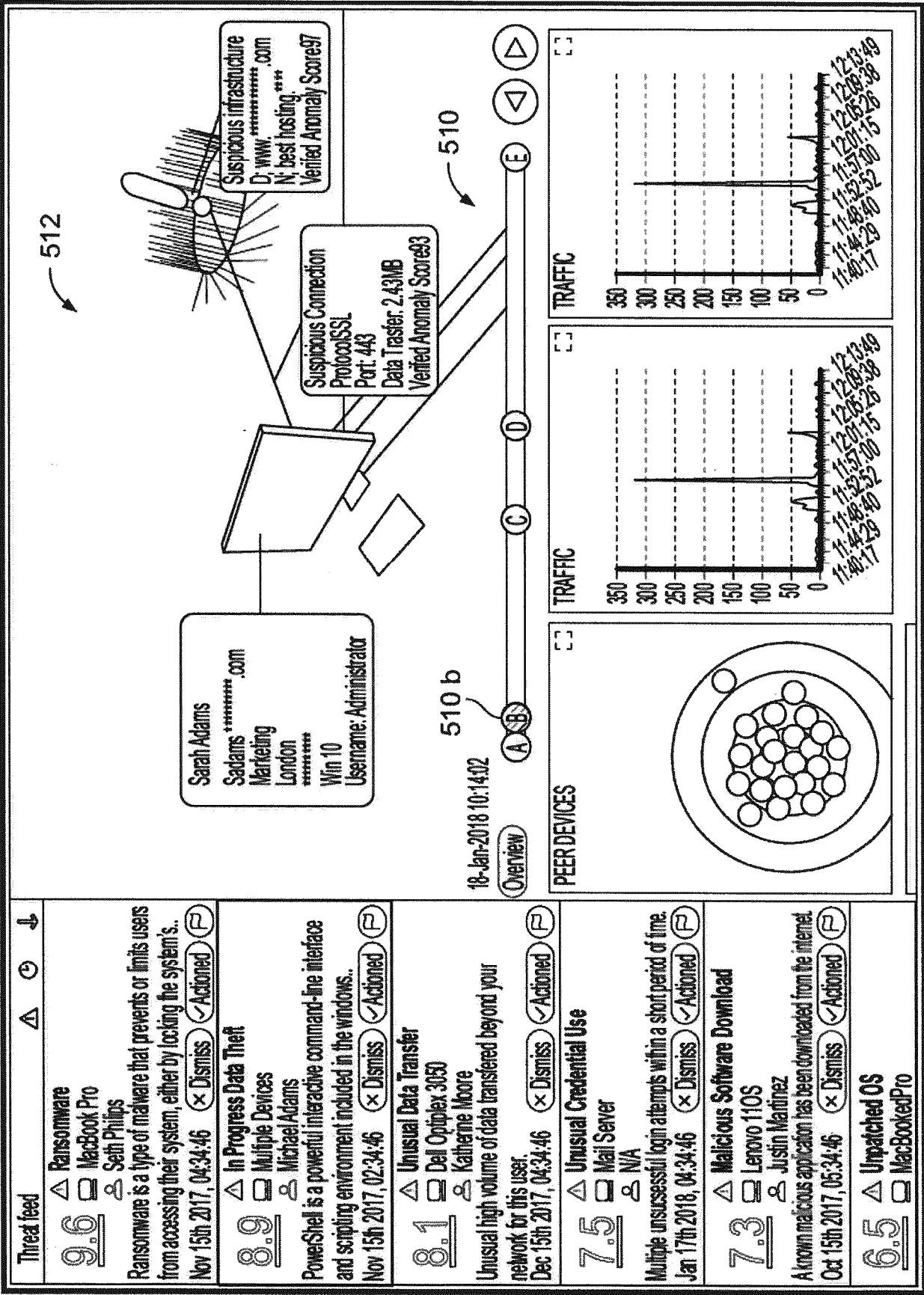


Figure 3





Figure 5A



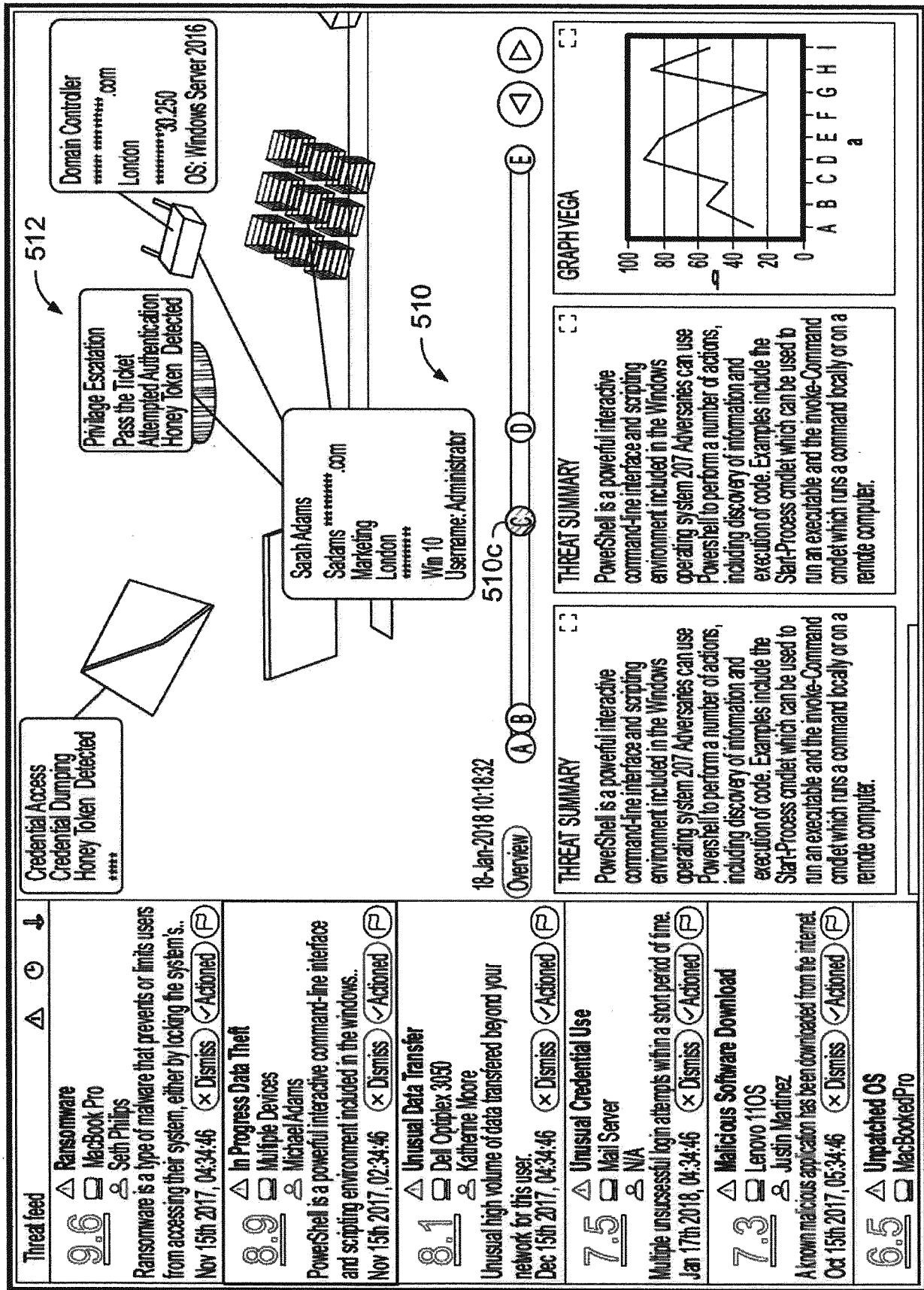
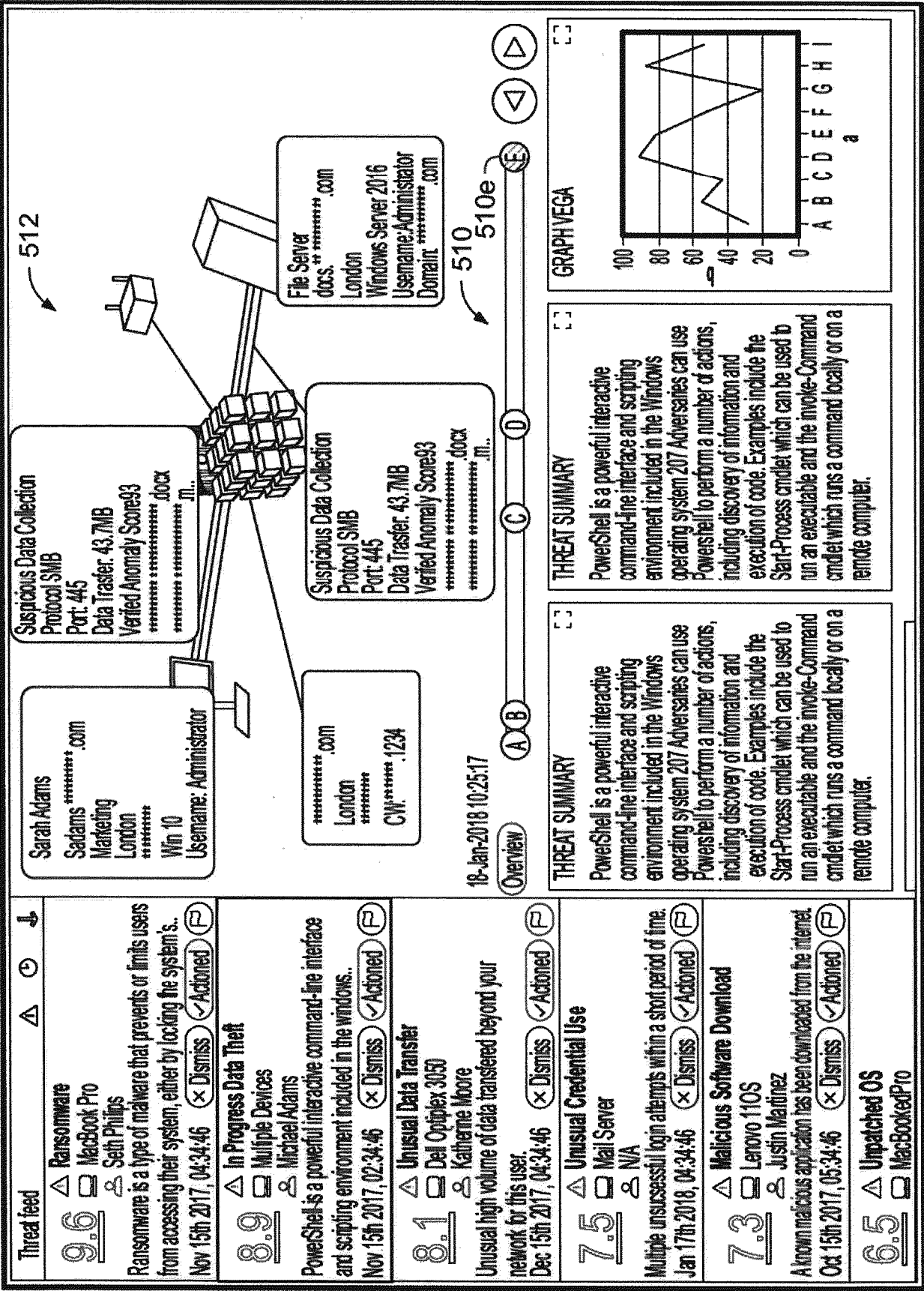


Figure 5C



Figure 5D



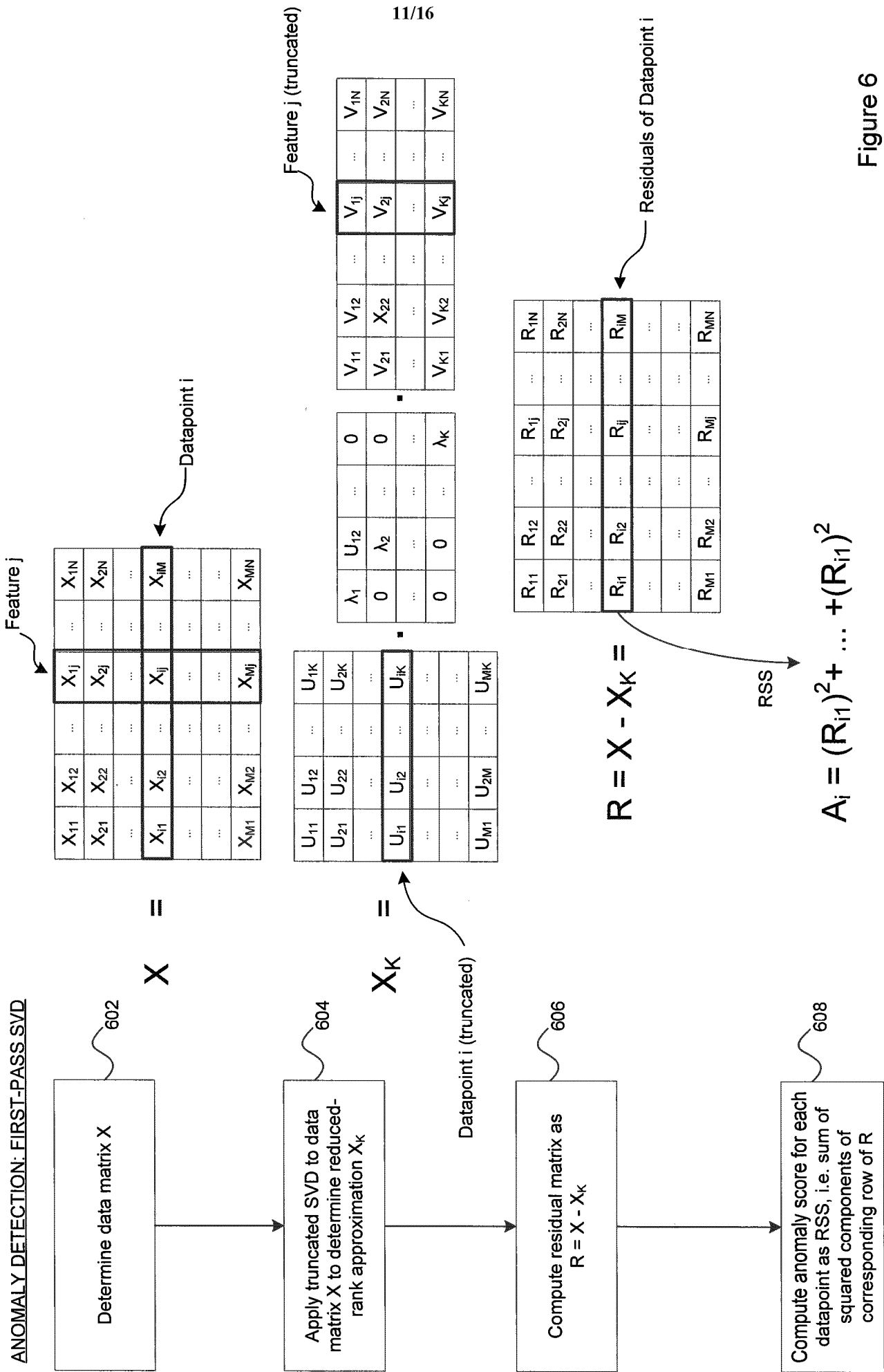


Figure 6

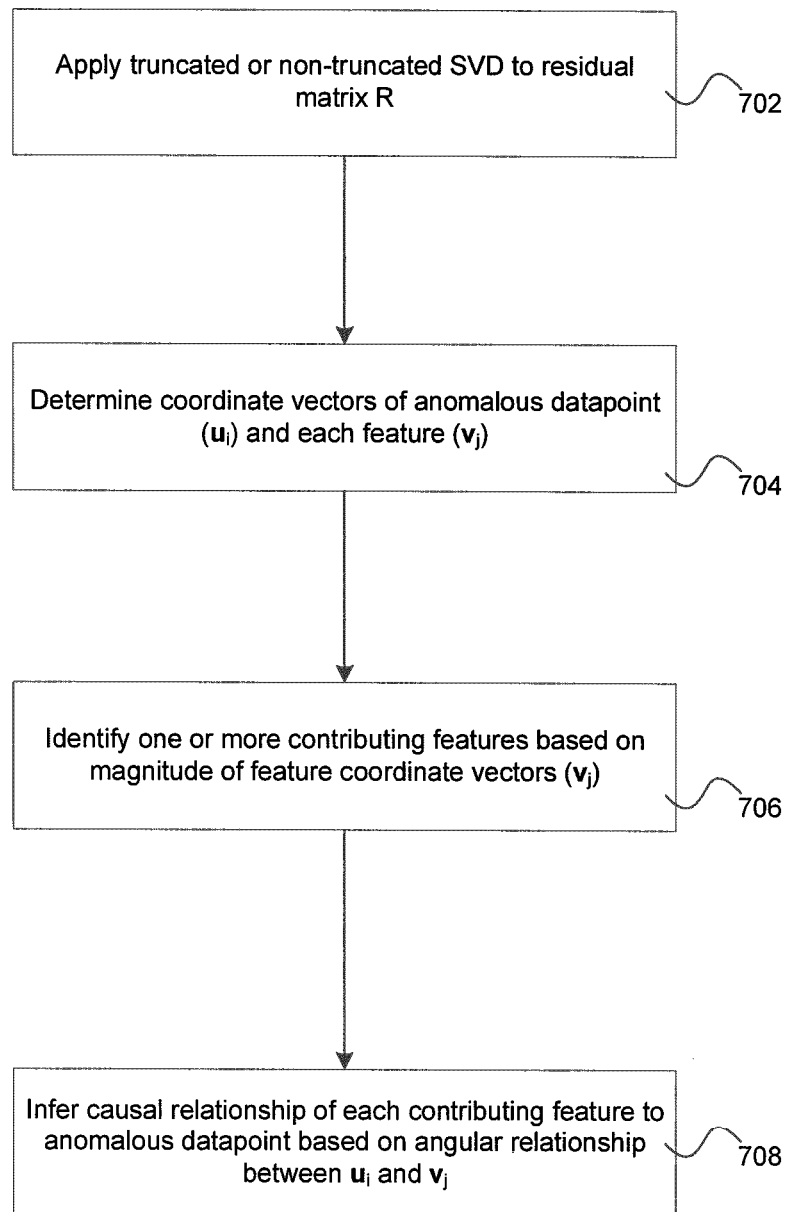
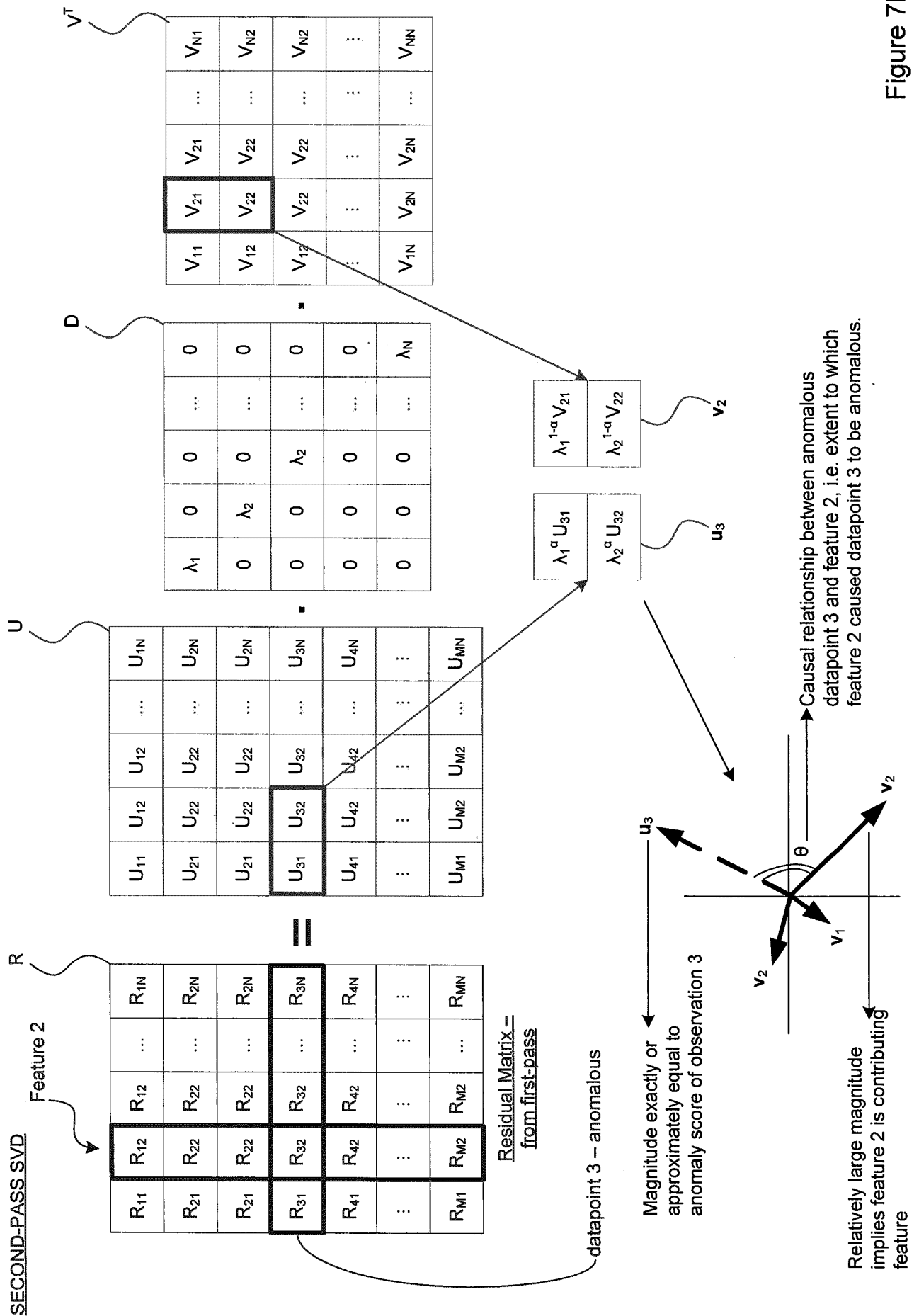
ANOMALY REASONING: SECOND-PASS SVD

Figure 7A



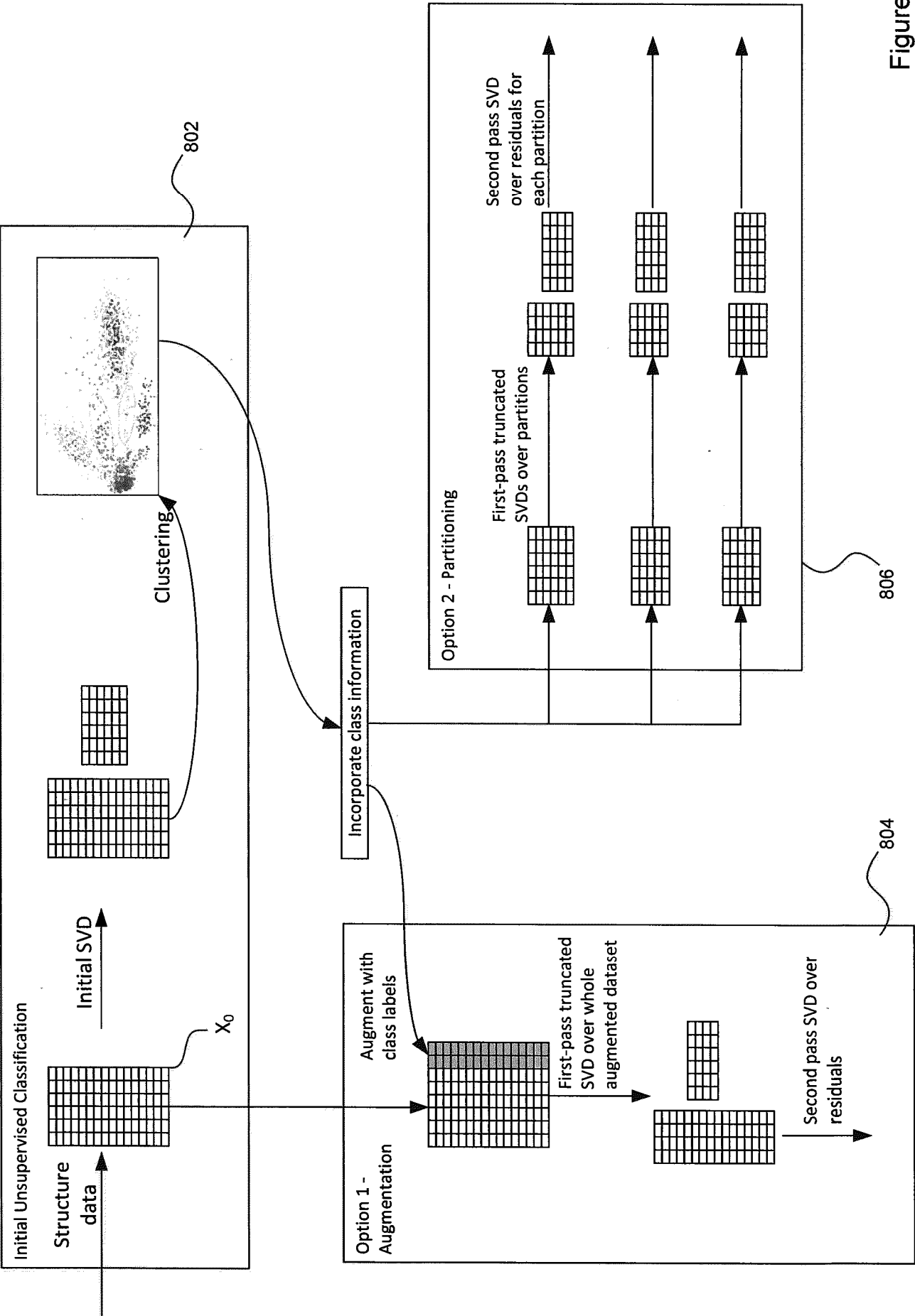
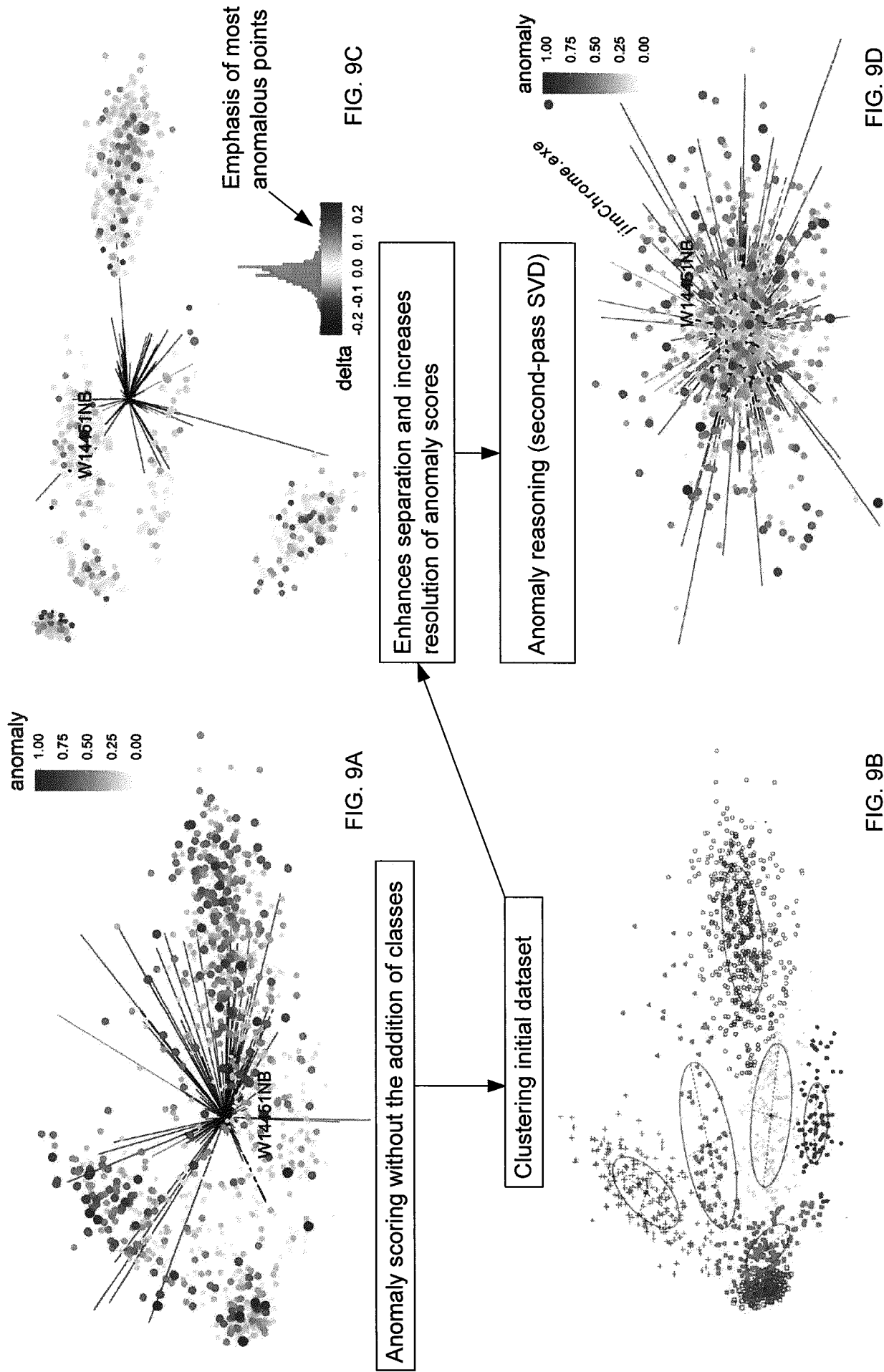


Figure 8



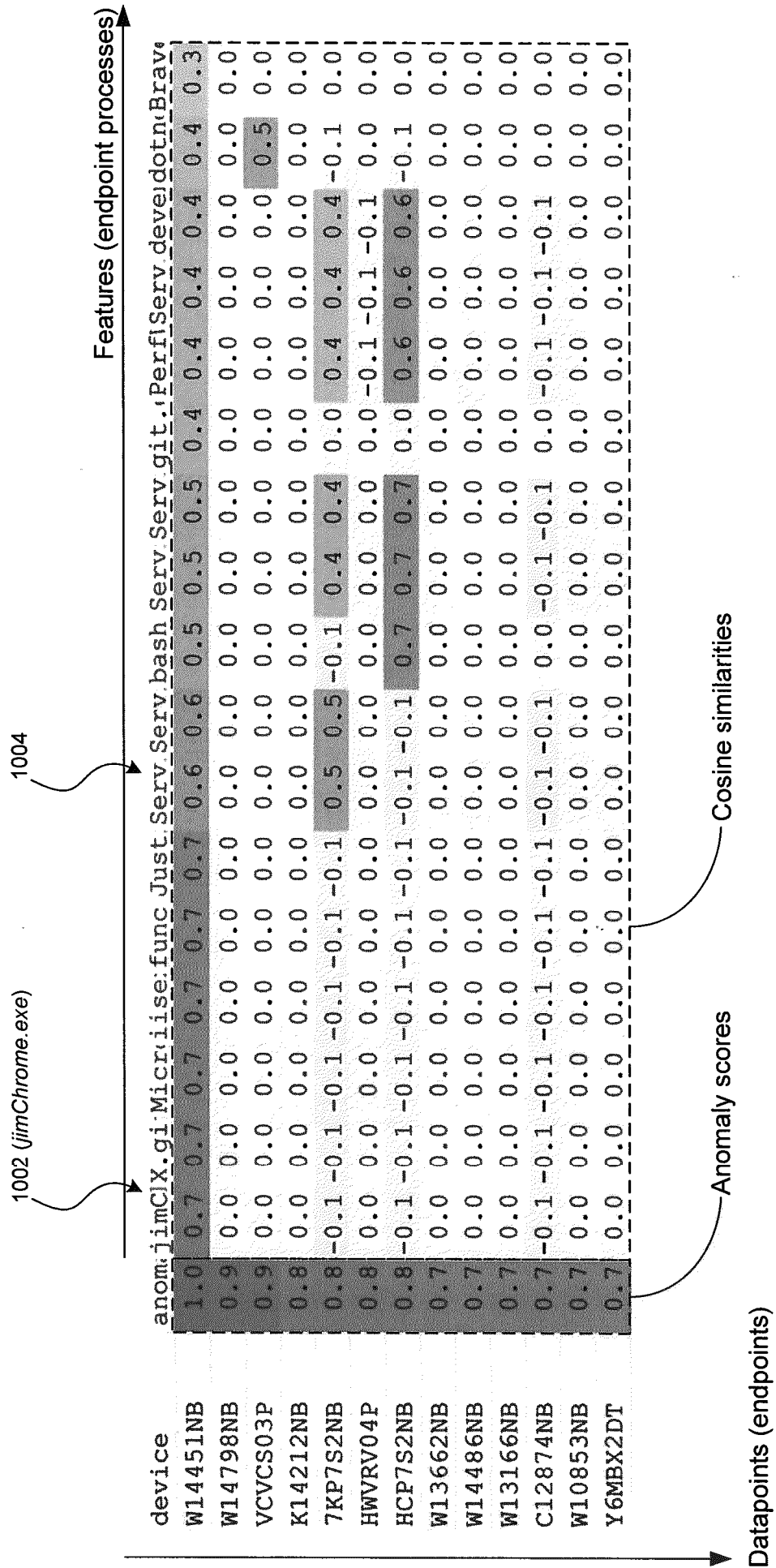


Figure 10