

MACHINE IDENTIFICATION OF ORIGINAL TRANSACTION IN LARGE TRANSACTION DATASETS

ABSTRACT OF THE DISCLOSURE

Server computers of card issuer-processors can identify an original transaction record, from among millions of stored transaction records relating to card processing transactions, based on data values of a particular input transaction and a plurality of filtering operations representing base criteria for an original transaction, first criteria strongly indicative of an original transaction, and second criteria that are weakly indicative of an original transaction. Real-time, high-speed, scalable processing is implemented for use in a high-volume transaction request-response system for payment networks or other digital data networks that are sensitive to latency.

[Fig. 2]