

ABSTRACT

A COMPUTER IMPLEMENTED METHOD, AND A SERVER

A system comprising a communication server 102; at least one user communication device 104 having an associated user and configured to initiate a transaction which includes transaction data; and communication network equipment 108 configured to establish communication with the communications server 102, and the at least one user communication device 104; wherein the communications server comprises at least one processor 116, an upper tier memory 118, and a lower tier memory 119, the server 102 being configured, under control of the one or more of the at least one processors 116, to execute instructions stored in the upper-tier memory 118 or the lower tier memory 119 to: store a key in the upper tier memory 118, wherein the key is derived from one or more entity identifiers in the transaction data; store a nested value map or a portion of a nested value map aggregated from the transaction data in the lower tier memory 119, and determine whether to approve or deny the transaction based on the nested value maps; wherein the user communication device 104 is further configured to indicate to the user whether the transaction has been approved or denied.

(Fig. 2)