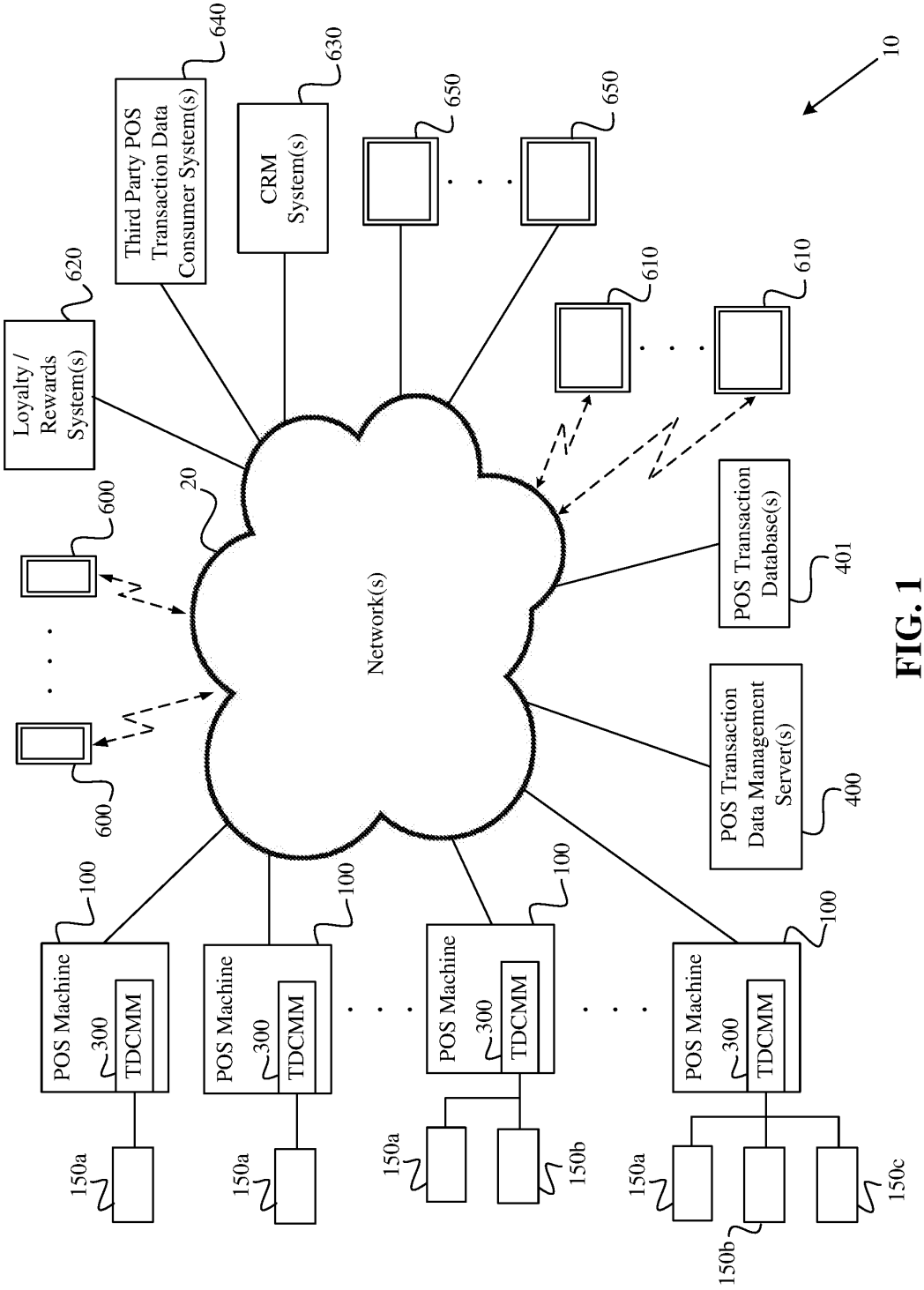

10
Network(s)
20
Third Party POS Transaction Data Consumer System(s)
640
CRM System(s)
630
650
650
Loyalty / Rewards System(s)
620
610
610
600
600
POS Transaction Database(s)
401
POS Transaction Data Management Server(s)
400
POS Machine
300
TDCMM
100
150a
150b
150c

FIG. 1

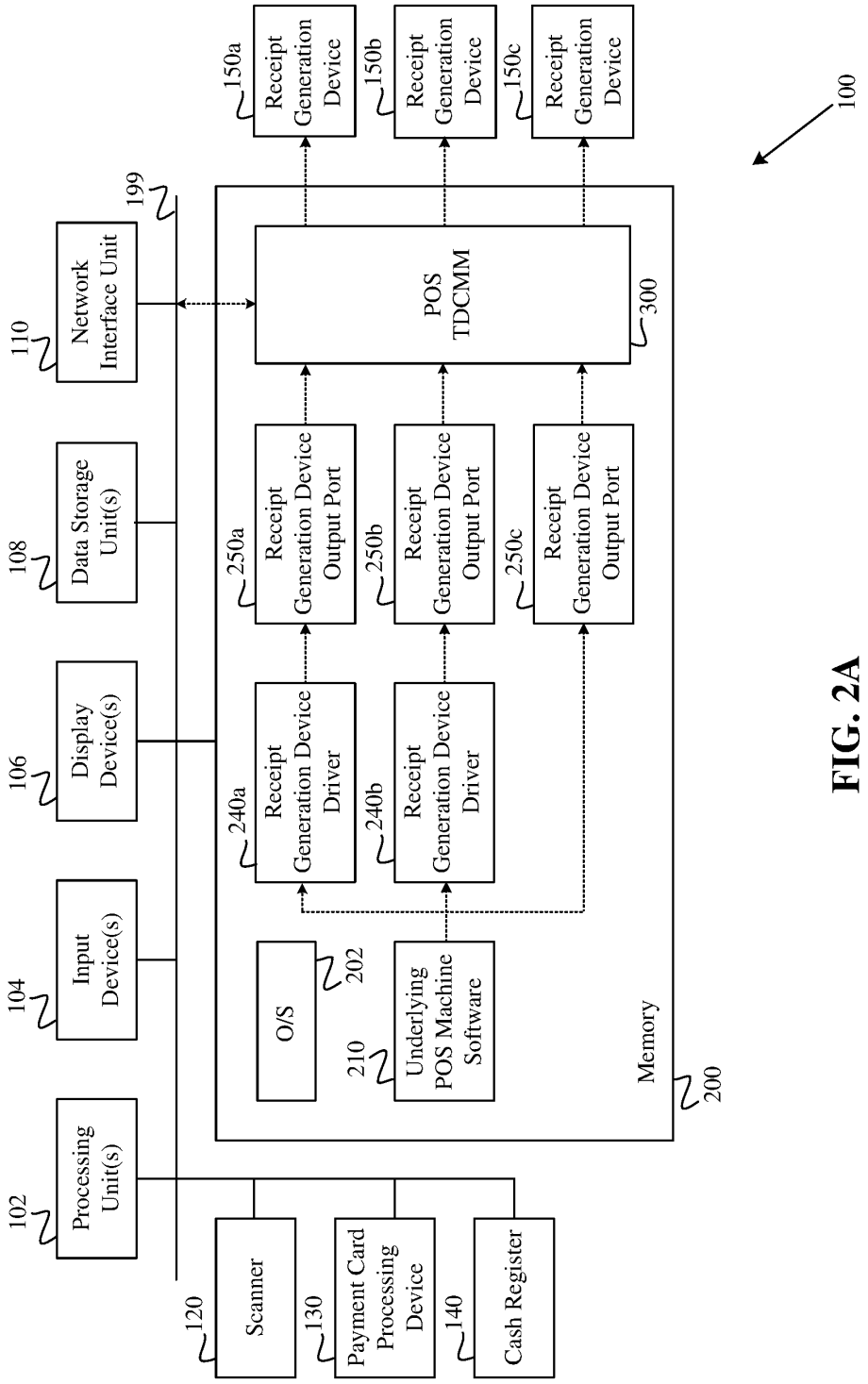

100
102
Processing Unit(s)
104
Input Device(s)
106
Display Device(s)
108
Data Storage Unit(s)
110
Network Interface Unit
199
120
Scanner
130
Payment Card Processing Device
140
Cash Register
150a
Receipt Generation Device
150b
Receipt Generation Device
150c
Receipt Generation Device
200
Memory
202
O/S
210
Underlying POS Machine Software
240a
Receipt Generation Device Driver
240b
Receipt Generation Device Driver
250a
Receipt Generation Device Output Port
250b
Receipt Generation Device Output Port
250c
Receipt Generation Device Output Port
300
POS TDCMM

FIG. 2A

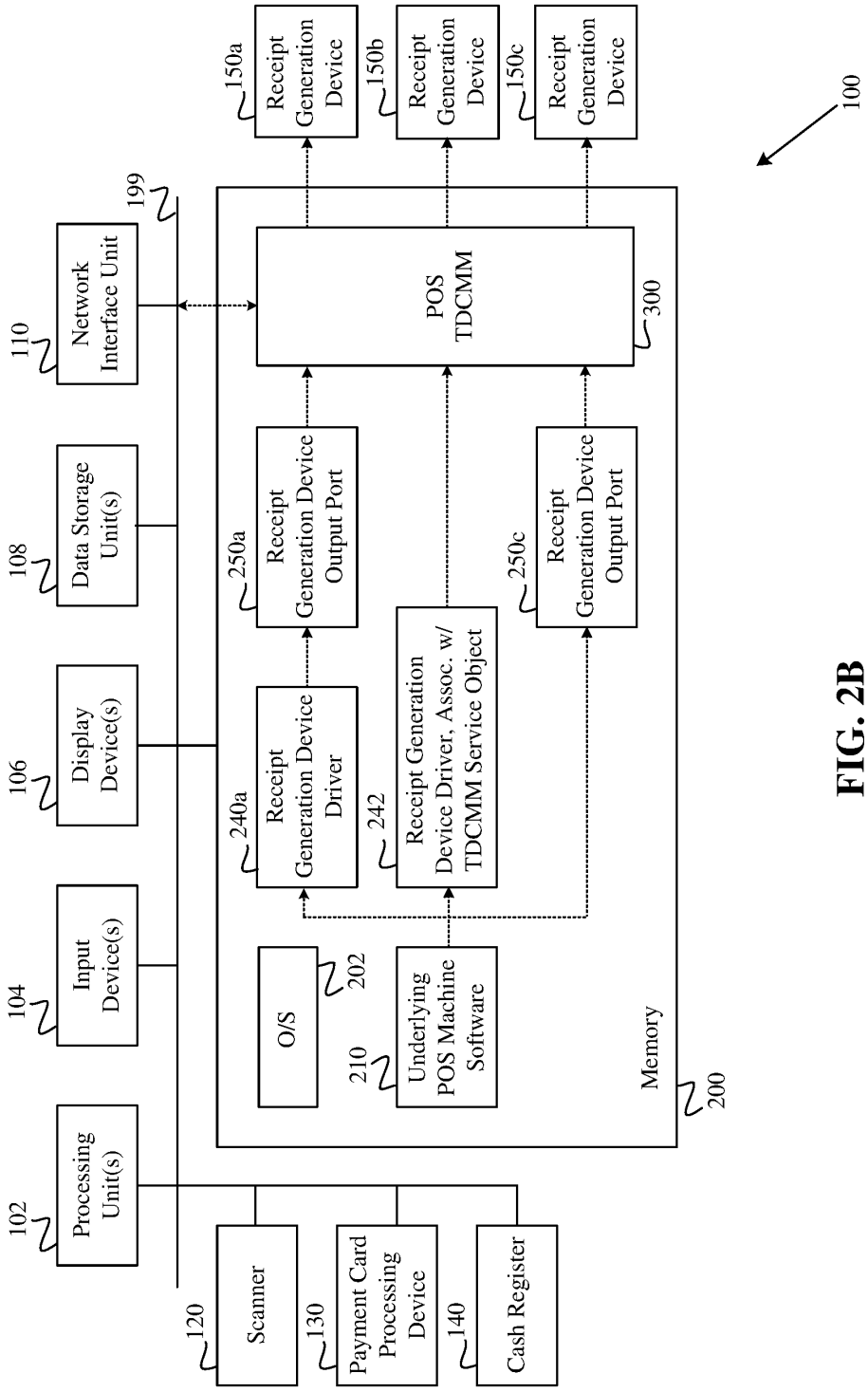

100
Processing Unit(s)
102
Input Device(s)
104
Display Device(s)
106
Data Storage Unit(s)
108
Network Interface Unit
110
199
Memory
200
O/S
202
210
Underlying POS Machine Software
Receipt Generation Device Driver
240a
Receipt Generation Device, Assoc. w/ TDCMM Service Object
242
Receipt Generation Device Output Port
250a
Receipt Generation Device Output Port
250c
POS TDCMM
300
Receipt Generation Device
150a
Receipt Generation Device
150b
Receipt Generation Device
150c
Scanner
120
Payment Card Processing Device
130
Cash Register
140

FIG. 2B

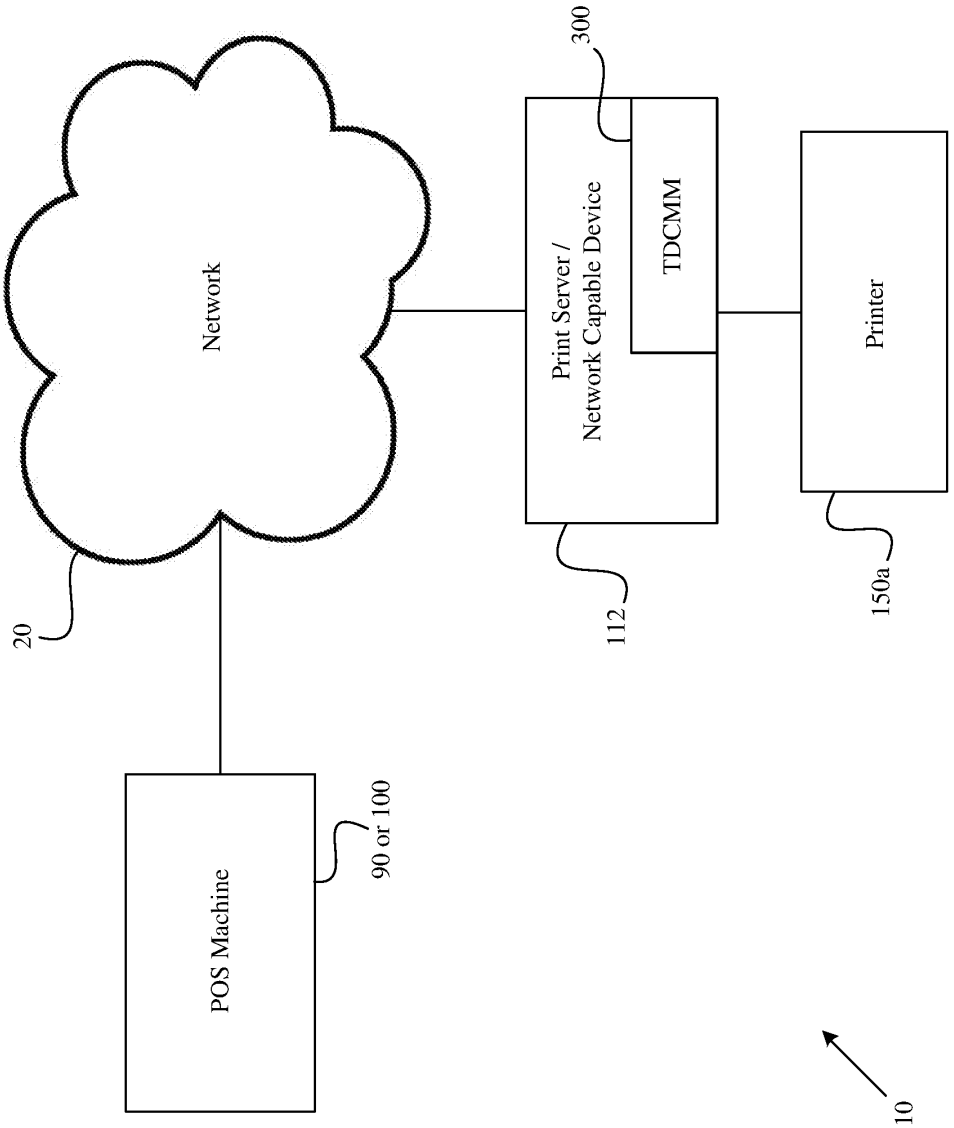

Network
20
POS Machine
90 or 100
Print Server /
Network Capable Device
112
TDCMM
300
Printer
150a
10

FIG. 2C

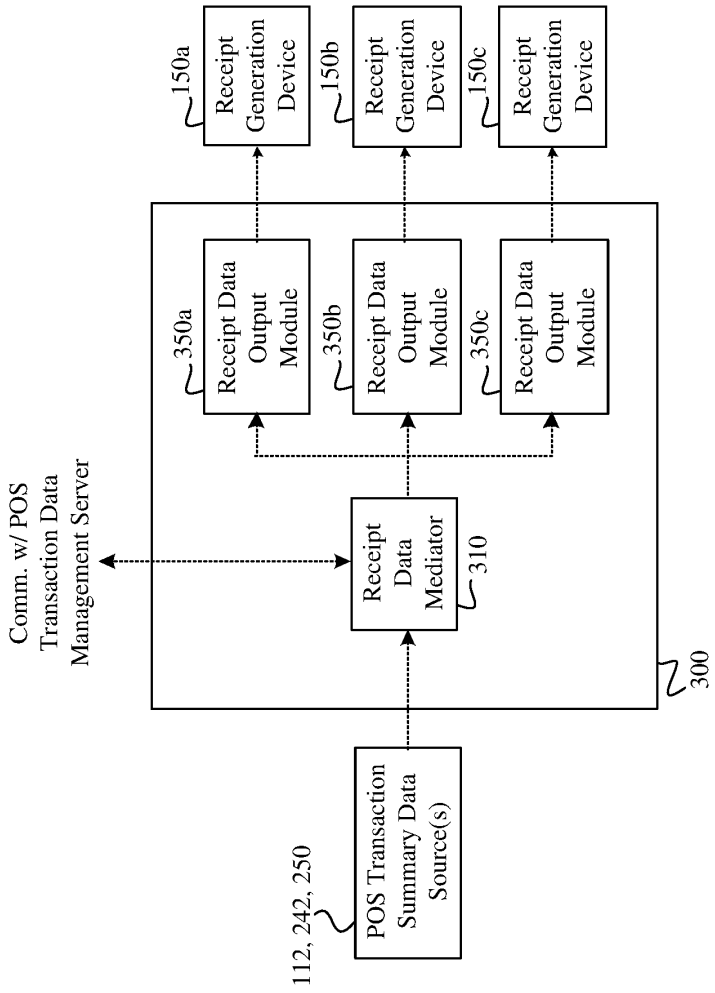

Comm. w/ POS Transaction Data Management Server
Receipt Data Mediator
310
Receipt Data Output Module
350a
Receipt Data Output Module
350b
Receipt Data Output Module
350c
Receipt Generation Device
150a
Receipt Generation Device
150b
Receipt Generation Device
150c
POS Transaction Summary Data Source(s)
112, 242, 250
300

FIG. 2D

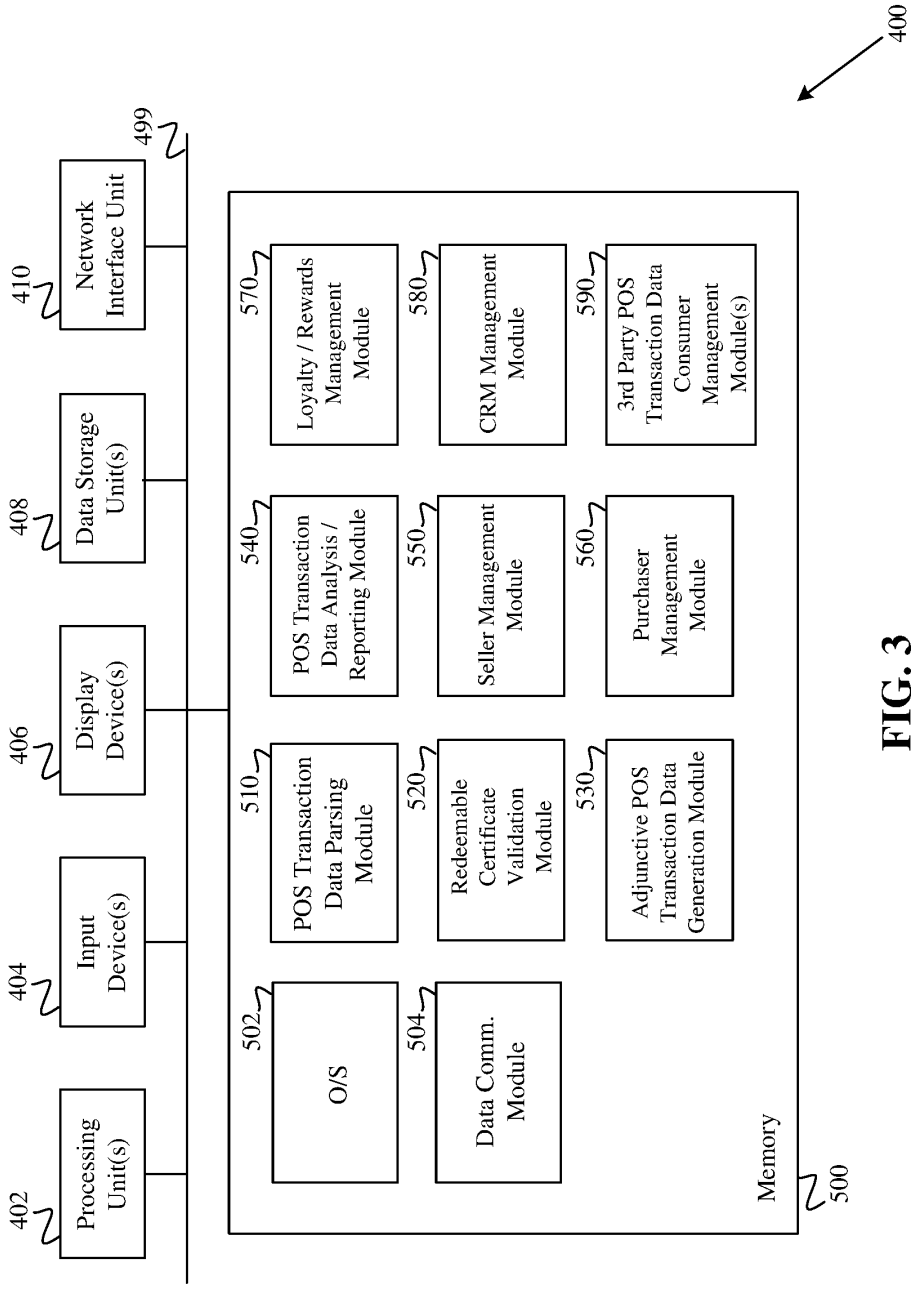

400
499
410
Network Interface Unit
408
Data Storage Unit(s)
406
Display Device(s)
404
Input Device(s)
402
Processing Unit(s)
570
Loyalty / Rewards Management Module
580
CRM Management Module
590
3rd Party POS Transaction Data Consumer Management Module(s)
540
POS Transaction Data Analysis / Reporting Module
550
Seller Management Module
560
Purchaser Management Module
510
POS Transaction Data Parsing Module
520
Redeemable Certificate Validation Module
530
Adjunctive POS Transaction Data Generation Module
502
O/S
504
Data Comm. Module
Memory
500

FIG. 3

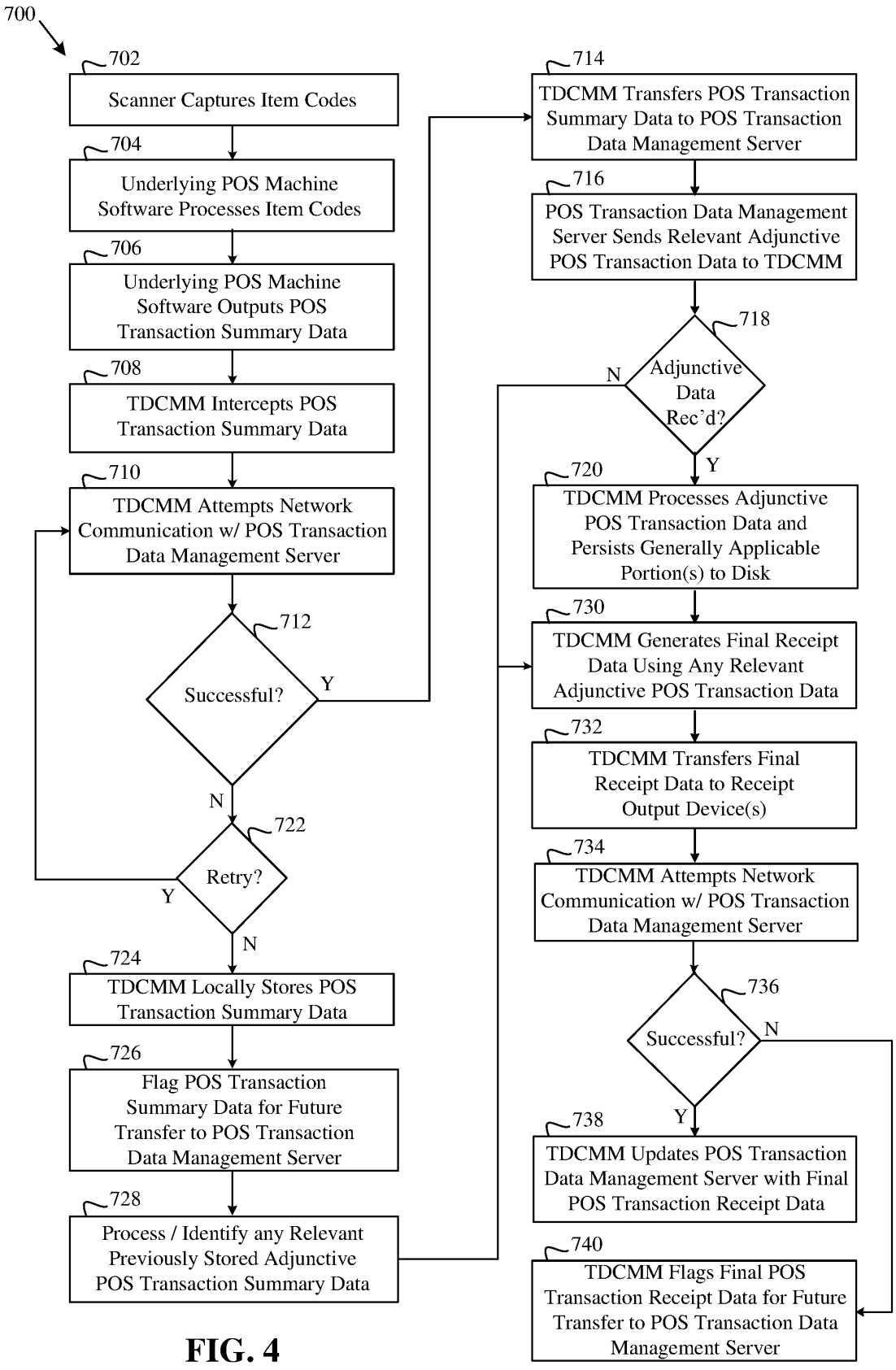

700
702
Scanner Captures Item Codes
704
Underlying POS Machine Software Processes Item Codes
706
Underlying POS Machine Software Outputs POS Transaction Summary Data
708
TDCMM Intercepts POS Transaction Summary Data
710
TDCMM Attempts Network Communication w/ POS Transaction Data Management Server
712
Successful?
Y
N
722
Retry?
Y
N
724
TDCMM Locally Stores POS Transaction Summary Data
726
Flag POS Transaction Summary Data for Future Transfer to POS Transaction Data Management Server
728
Process / Identify any Relevant Previously Stored Adjunctive POS Transaction Summary Data
714
TDCMM Transfers POS Transaction Summary Data to POS Transaction Data Management Server
716
POS Transaction Data Management Server Sends Relevant Adjunctive POS Transaction Data to TDCMM
718
Adjunctive Data Rec'd?
N
Y
720
TDCMM Processes Adjunctive POS Transaction Data and Persists Generally Applicable Portion(s) to Disk
730
TDCMM Generates Final Receipt Data Using Any Relevant Adjunctive POS Transaction Data
732
TDCMM Transfers Final Receipt Data to Receipt Output Device(s)
734
TDCMM Attempts Network Communication w/ POS Transaction Data Management Server
736
Successful?
N
Y
738
TDCMM Updates POS Transaction Data Management Server with Final POS Transaction Receipt Data
740
TDCMM Flags Final POS Transaction Receipt Data for Future Transfer to POS Transaction Data Management Server

FIG. 4

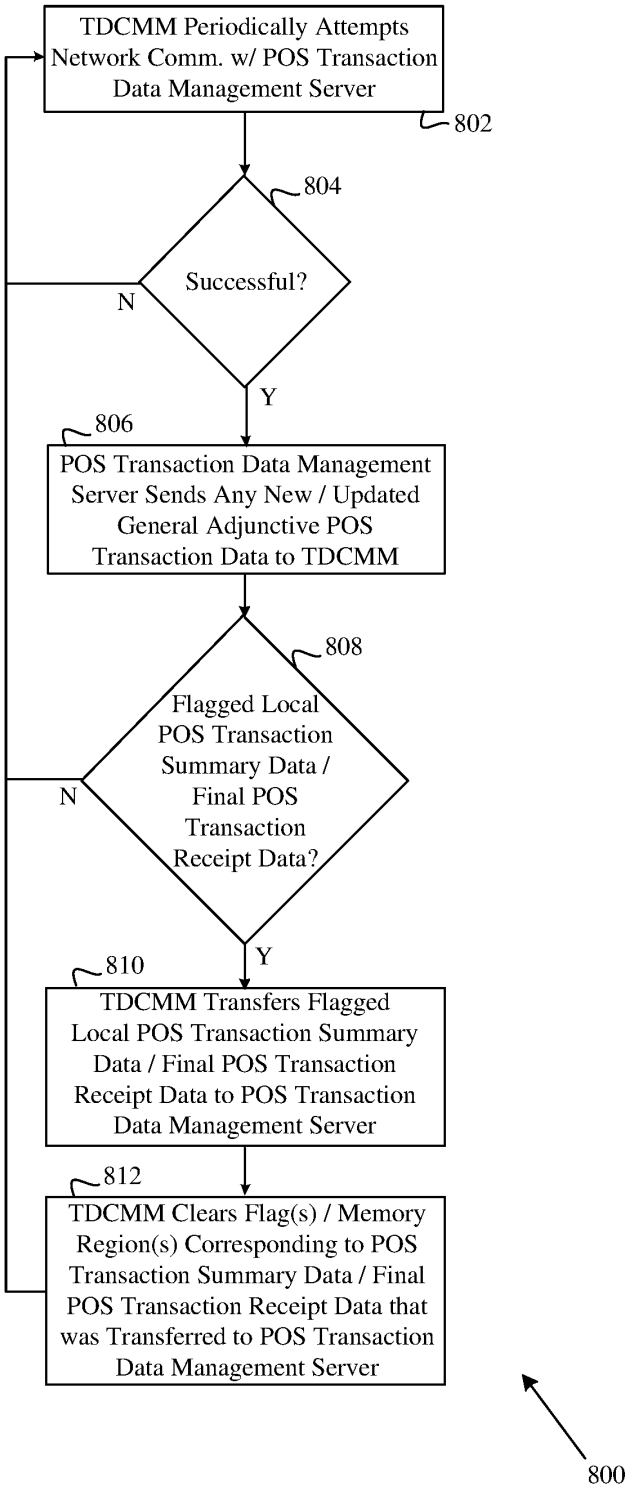

TDCMM Periodically Attempts Network Comm. w/ POS Transaction Data Management Server
802
804
Successful?
N
Y
806
POS Transaction Data Management Server Sends Any New / Updated General Adjunctive POS Transaction Data to TDCMM
808
Flagged Local POS Transaction Summary Data / Final POS Transaction Receipt Data?
N
Y
810
TDCMM Transfers Flagged Local POS Transaction Summary Data / Final POS Transaction Receipt Data to POS Transaction Data Management Server
812
TDCMM Clears Flag(s) / Memory Region(s) Corresponding to POS Transaction Summary Data / Final POS Transaction Receipt Data that was Transferred to POS Transaction Data Management Server
800

FIG. 5