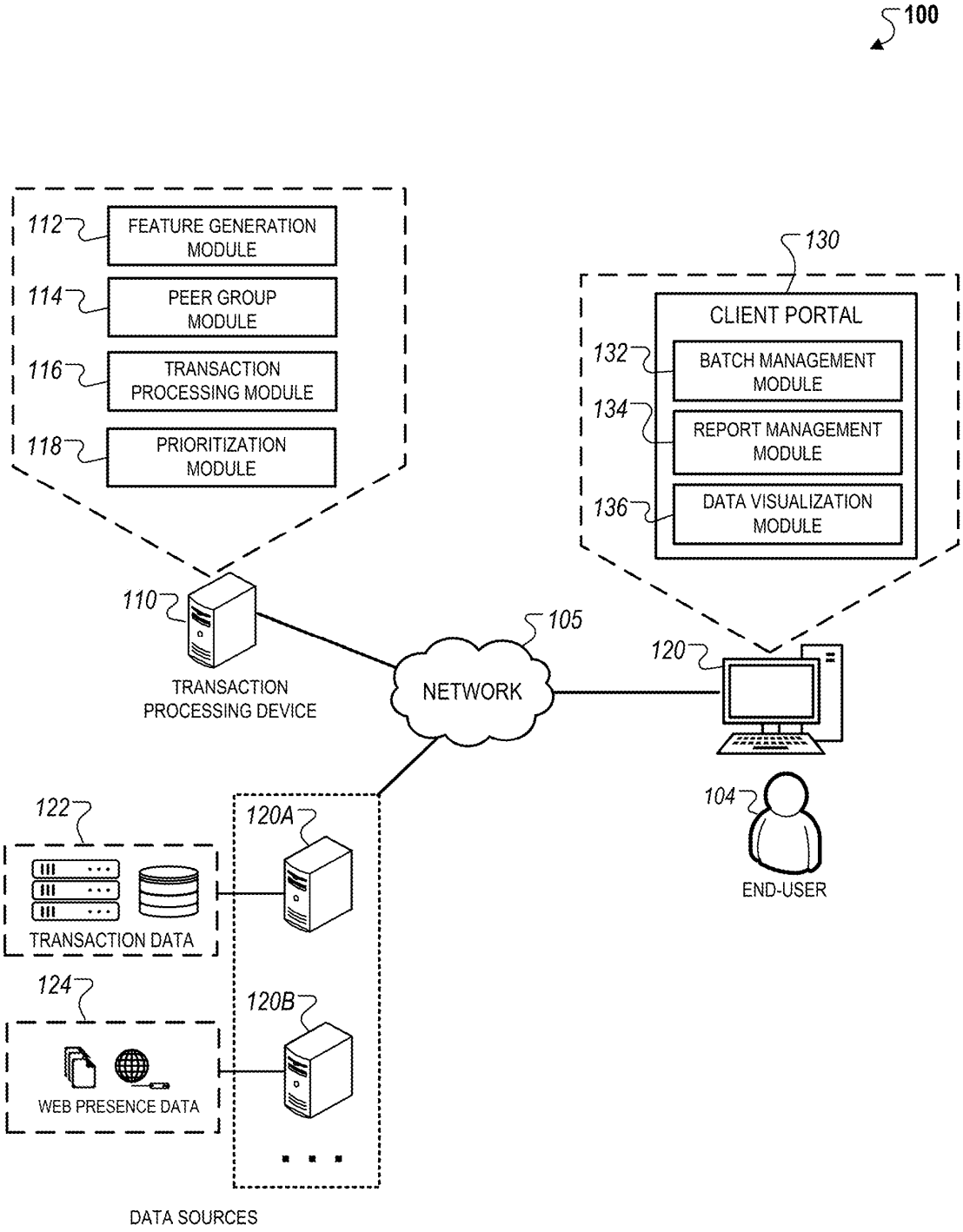

100
112
FEATURE GENERATION MODULE
114
PEER GROUP MODULE
116
TRANSACTION PROCESSING MODULE
118
PRIORITIZATION MODULE
130
CLIENT PORTAL
132
BATCH MANAGEMENT MODULE
134
REPORT MANAGEMENT MODULE
136
DATA VISUALIZATION MODULE
110
TRANSACTION PROCESSING DEVICE
105
NETWORK
120
104
END-USER
122
TRANSACTION DATA
120A
124
WEB PRESENCE DATA
120B
DATA SOURCES

FIG. 1A

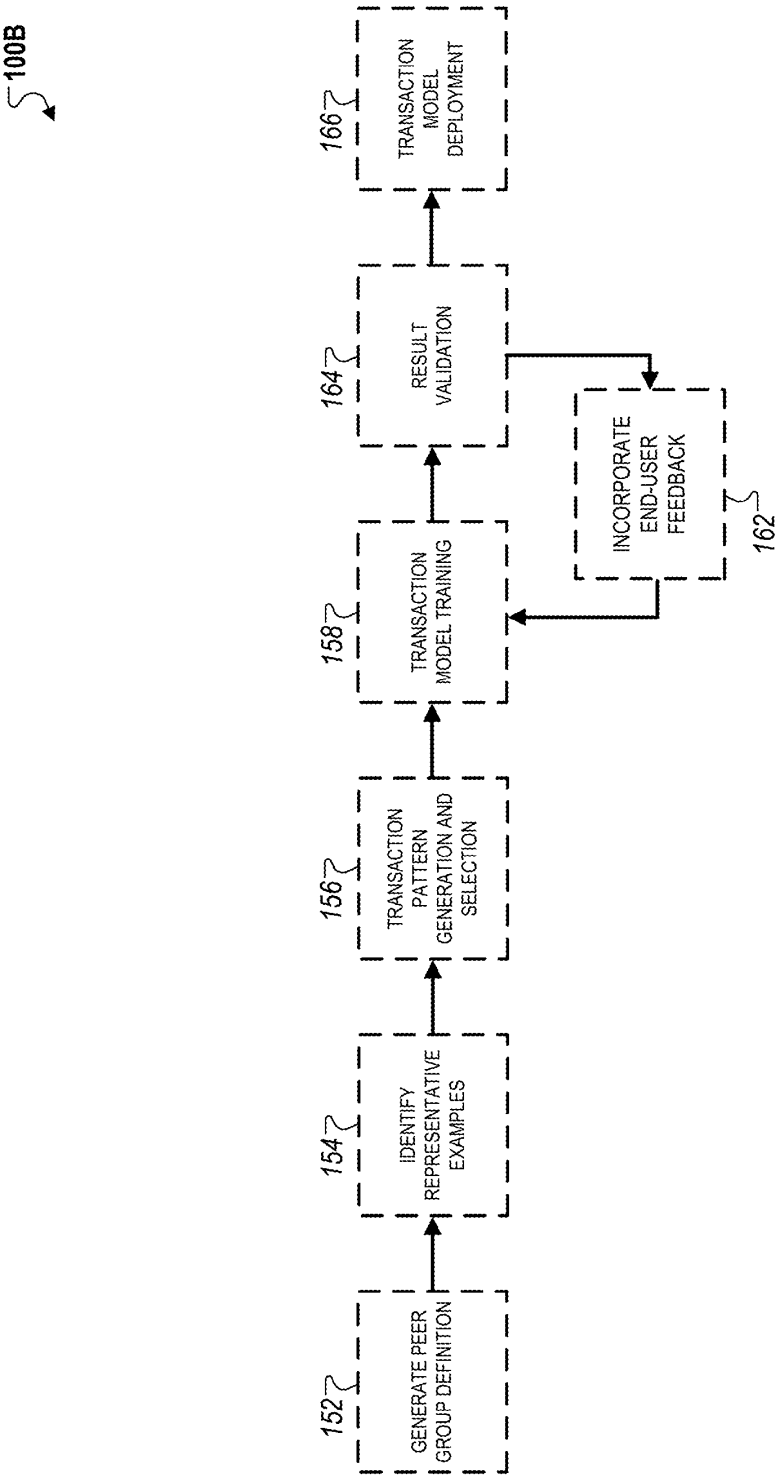

100B
152
GENERATE PEER GROUP DEFINITION
154
IDENTIFY REPRESENTATIVE EXAMPLES
156
TRANSACTION PATTERN GENERATION AND SELECTION
158
TRANSACTION MODEL TRAINING
162
INCORPORATE END-USER FEEDBACK
164
RESULT VALIDATION
166
TRANSACTION MODEL DEPLOYMENT

FIG. 1B

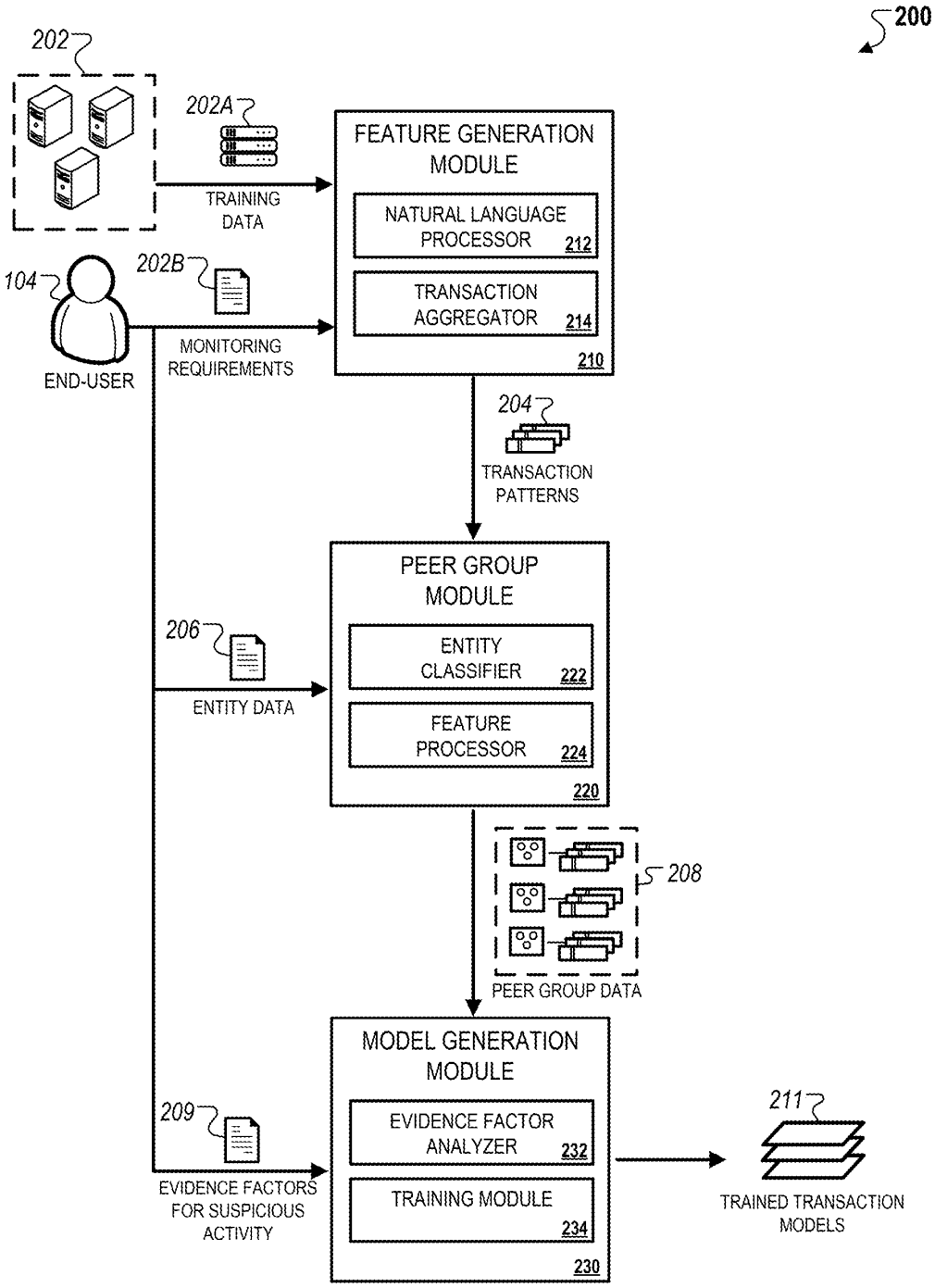

200
202
202A
TRAINING DATA
FEATURE GENERATION MODULE
NATURAL LANGUAGE PROCESSOR 212
TRANSACTION AGGREGATOR 214
210
104
202B
MONITORING REQUIREMENTS
END-USER
204
TRANSACTION PATTERNS
PEER GROUP MODULE
206
ENTITY CLASSIFIER 222
ENTITY DATA
FEATURE PROCESSOR 224
220
208
PEER GROUP DATA
MODEL GENERATION MODULE
209
EVIDENCE FACTOR ANALYZER 232
211
EVIDENCE FACTORS FOR SUSPICIOUS ACTIVITY
TRAINING MODULE 234
230
TRAINED TRANSACTION MODELS

FIG. 2

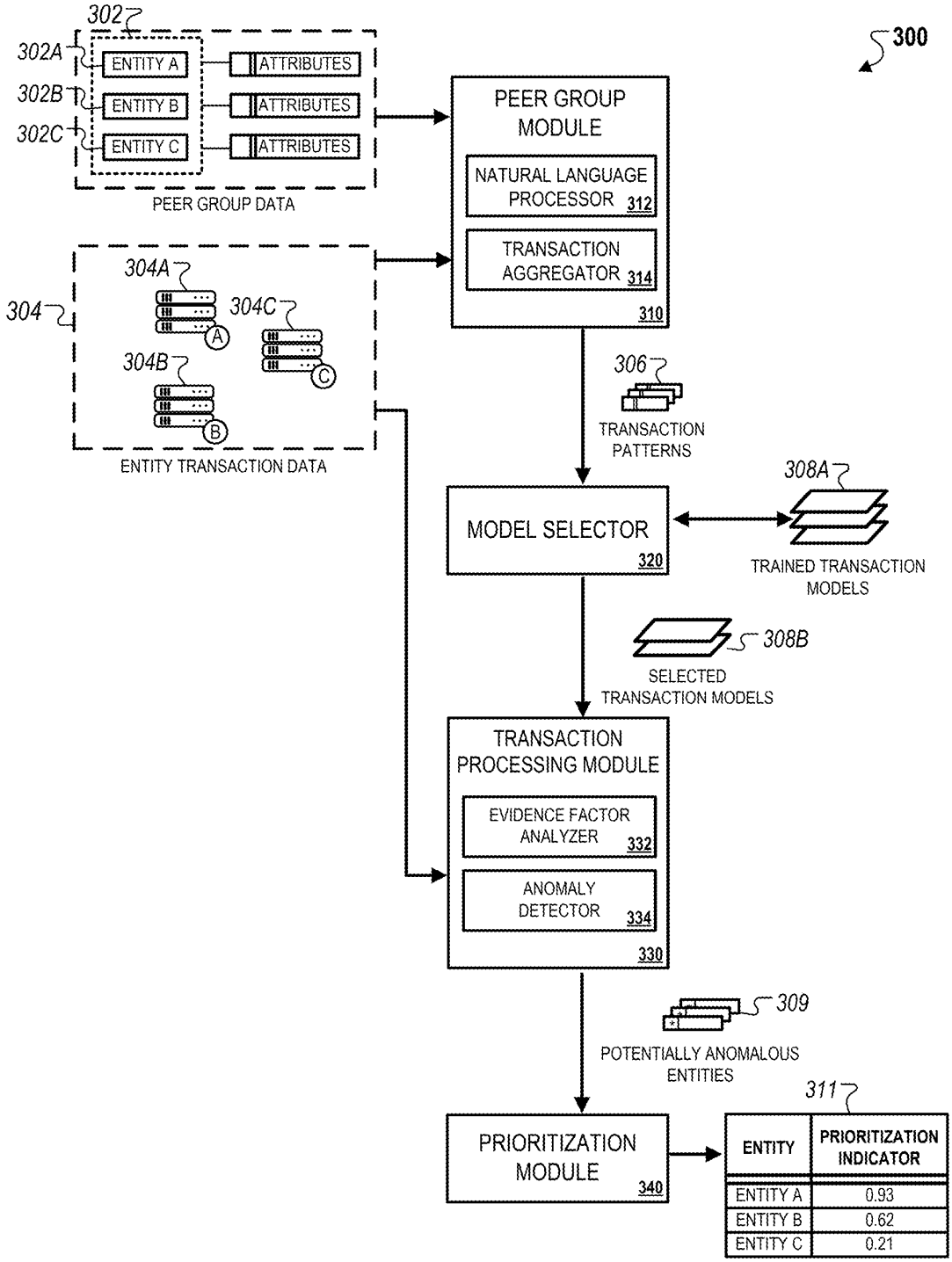

300
302
302A
ENTITY A
ATTRIBUTES
302B
ENTITY B
ATTRIBUTES
302C
ENTITY C
ATTRIBUTES
PEER GROUP DATA
PEER GROUP MODULE
NATURAL LANGUAGE PROCESSOR 312
TRANSACTION AGGREGATOR 314
310
304
304A
304B
304C
A
B
C
ENTITY TRANSACTION DATA
306
TRANSACTION PATTERNS
308A
TRAINED TRANSACTION MODELS
MODEL SELECTOR
320
308B
SELECTED TRANSACTION MODELS
TRANSACTION PROCESSING MODULE
EVIDENCE FACTOR ANALYZER 332
ANOMALY DETECTOR 334
330
309
POTENTIALLY ANOMALOUS ENTITIES
311
PRIORITIZATION MODULE
340
ENTITY
PRIORITIZATION INDICATOR
ENTITY A
0.93
ENTITY B
0.62
ENTITY C
0.21

FIG. 3

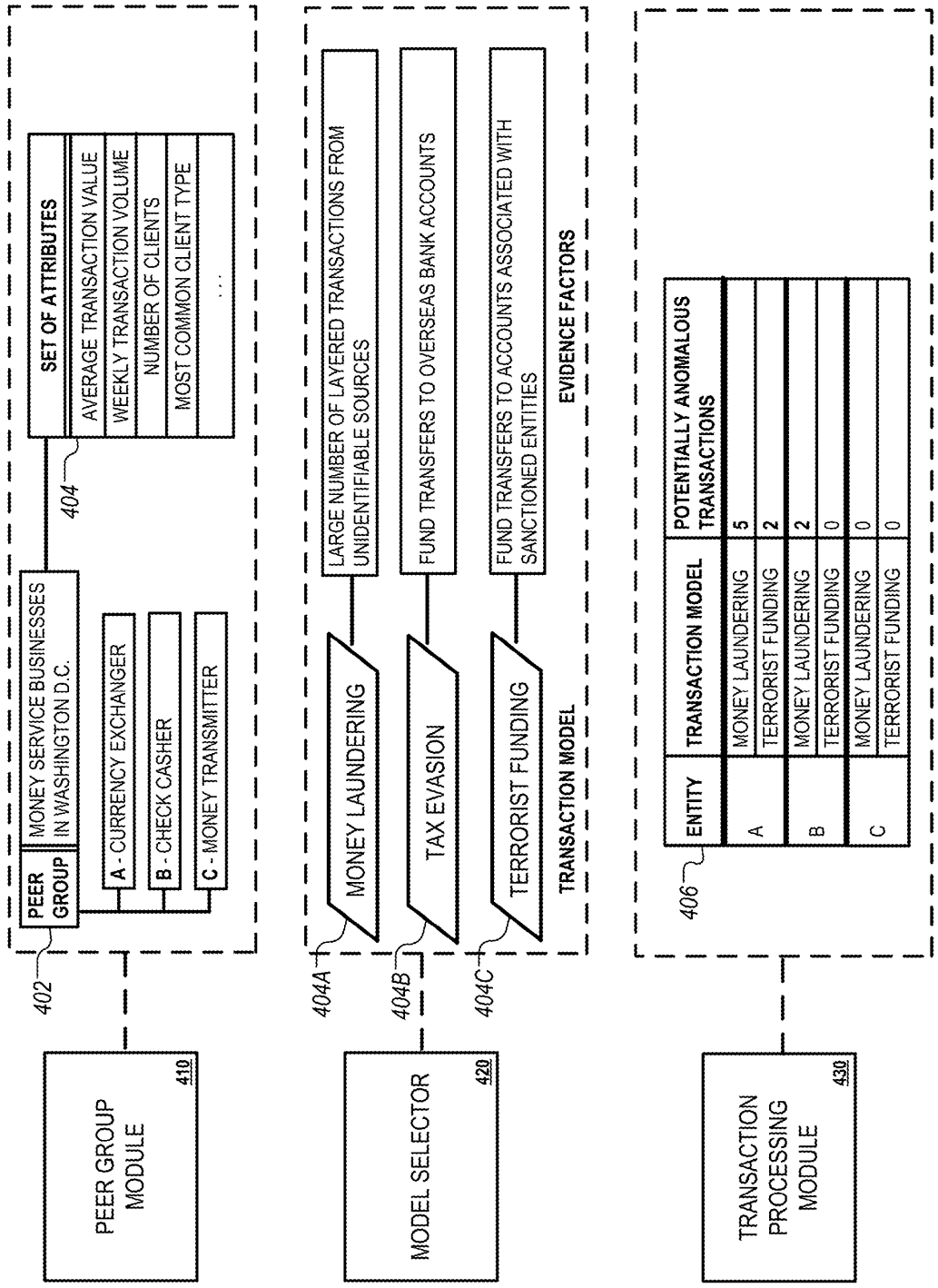

PEER GROUP MODULE
410
402
PEER GROUP
MONEY SERVICE BUSINESSES IN WASHINGTON D.C.
A - CURRENCY EXCHANGER
B - CHECK CASHER
C - MONEY TRANSMITTER
404
SET OF ATTRIBUTES
AVERAGE TRANSACTION VALUE
WEEKLY TRANSACTION VOLUME
NUMBER OF CLIENTS
MOST COMMON CLIENT TYPE
...
MODEL SELECTOR
420
404A
404B
404C
MONEY LAUNDERING
TAX EVASION
TERRORIST FUNDING
TRANSACTION MODEL
LARGE NUMBER OF LAYERED TRANSACTIONS FROM UNIDENTIFIABLE SOURCES
FUND TRANSFERS TO OVERSEAS BANK ACCOUNTS
FUND TRANSFERS TO ACCOUNTS ASSOCIATED WITH SANCTIONED ENTITIES
EVIDENCE FACTORS
TRANSACTION PROCESSING MODULE
430
406
ENTITY
TRANSACTION MODEL
POTENTIALLY ANOMALOUS TRANSACTIONS
A
MONEY LAUNDERING 5
TERRORIST FUNDING 2
B
MONEY LAUNDERING 2
TERRORIST FUNDING 0
C
MONEY LAUNDERING 0
TERRORIST FUNDING 0

FIG. 4A

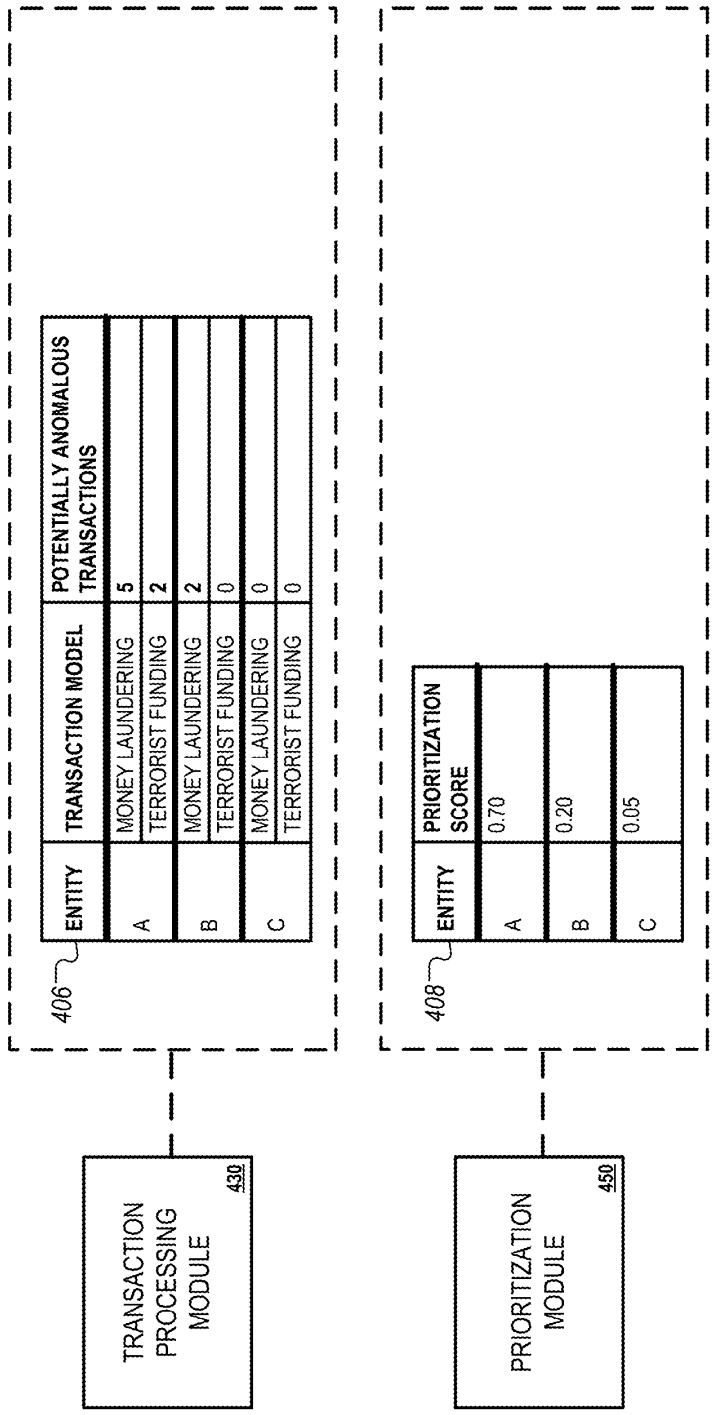

406
ENTITY
TRANSACTION MODEL
POTENTIALLY ANOMALOUS TRANSACTIONS
A
MONEY LAUNDERING
5
TERRORIST FUNDING
2
B
MONEY LAUNDERING
2
TERRORIST FUNDING
0
C
MONEY LAUNDERING
0
TERRORIST FUNDING
0
408
ENTITY
PRIORITIZATION SCORE
A
0.70
B
0.20
C
0.05
TRANSACTION PROCESSING MODULE
430
PRIORITIZATION MODULE
450

FIG. 4B

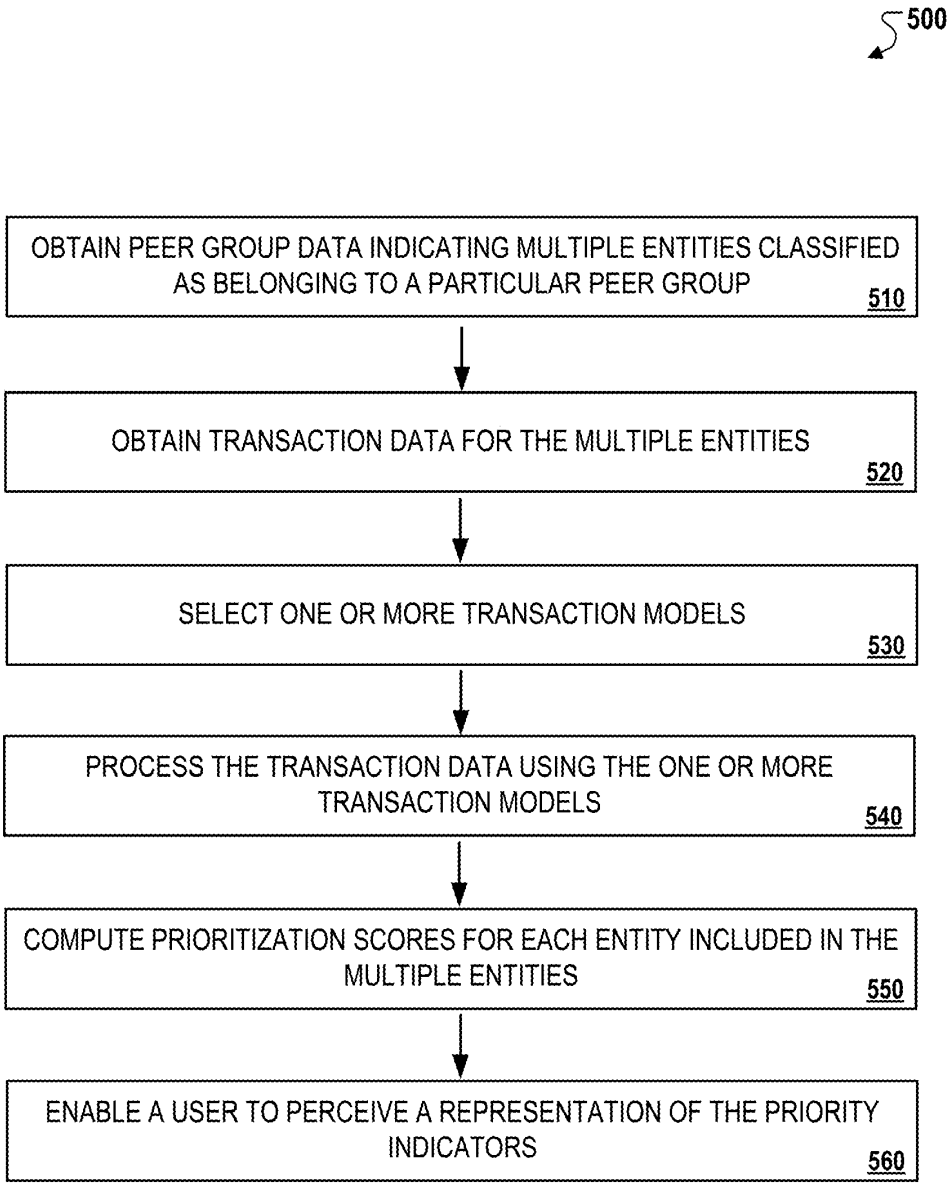

500
OBTAIN PEER GROUP DATA INDICATING MULTIPLE ENTITIES CLASSIFIED AS BELONGING TO A PARTICULAR PEER GROUP
510
OBTAIN TRANSACTION DATA FOR THE MULTIPLE ENTITIES
520
SELECT ONE OR MORE TRANSACTION MODELS
530
PROCESS THE TRANSACTION DATA USING THE ONE OR MORE TRANSACTION MODELS
540
COMPUTE PRIORITIZATION SCORES FOR EACH ENTITY INCLUDED IN THE MULTIPLE ENTITIES
550
ENABLE A USER TO PERCEIVE A REPRESENTATION OF THE PRIORITY INDICATORS
560

FIG. 5

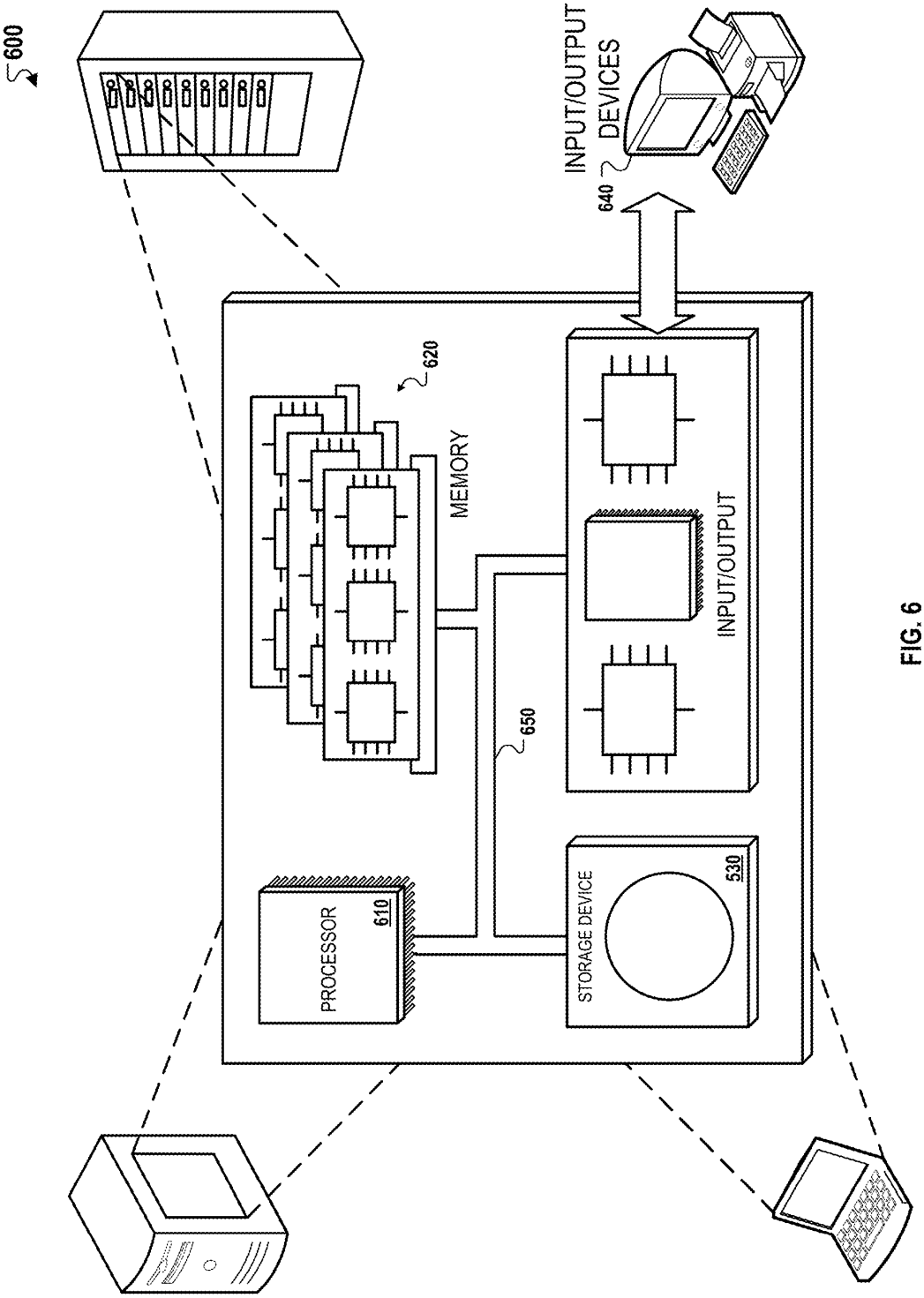

600
INPUT/OUTPUT DEVICES
640
620
MEMORY
INPUT/OUTPUT
650
PROCESSOR
610
STORAGE DEVICE
530

FIG. 6