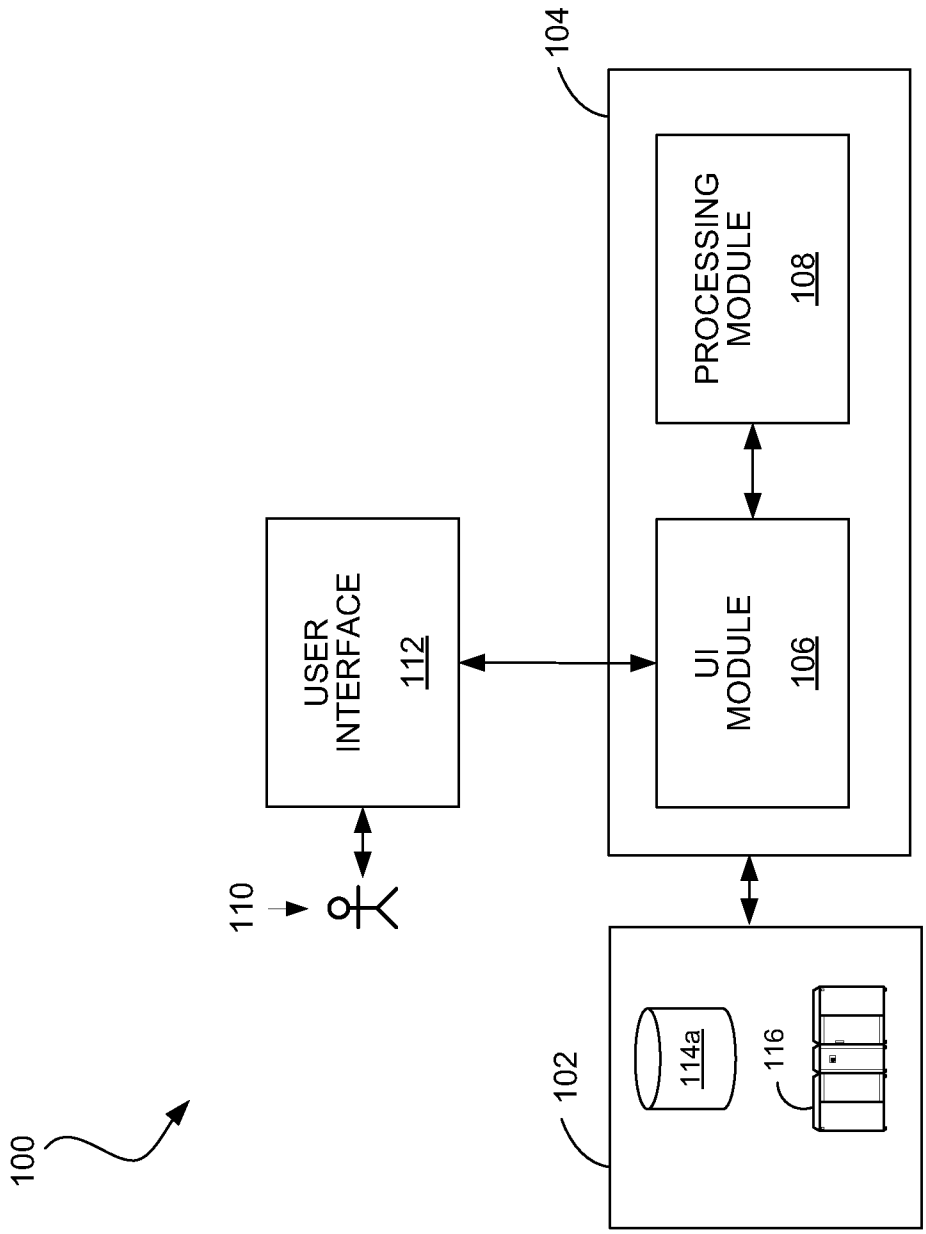

100
102
104
110
112
114a
116
106
108
USER INTERFACE
UI MODULE
PROCESSING MODULE

FIG. 1

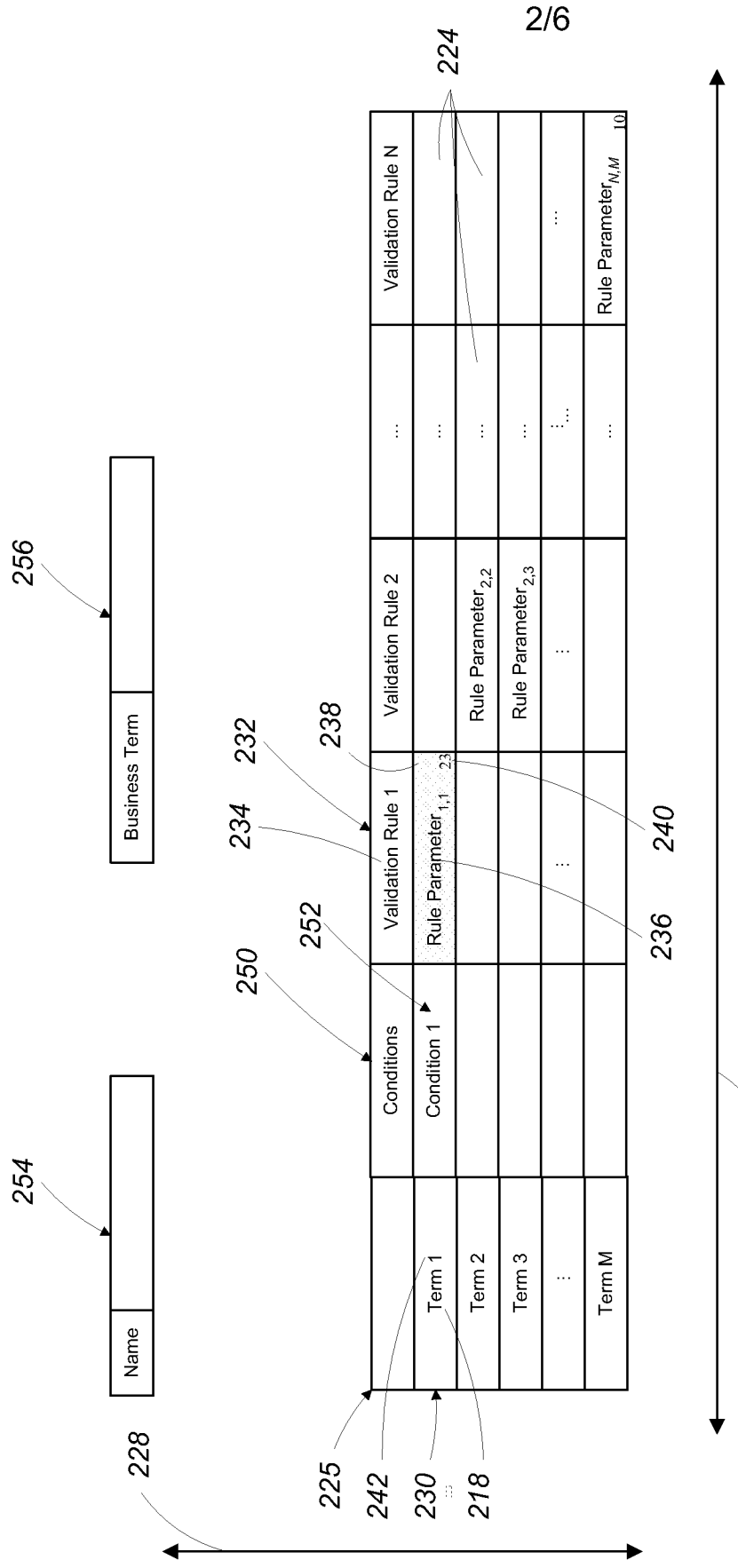
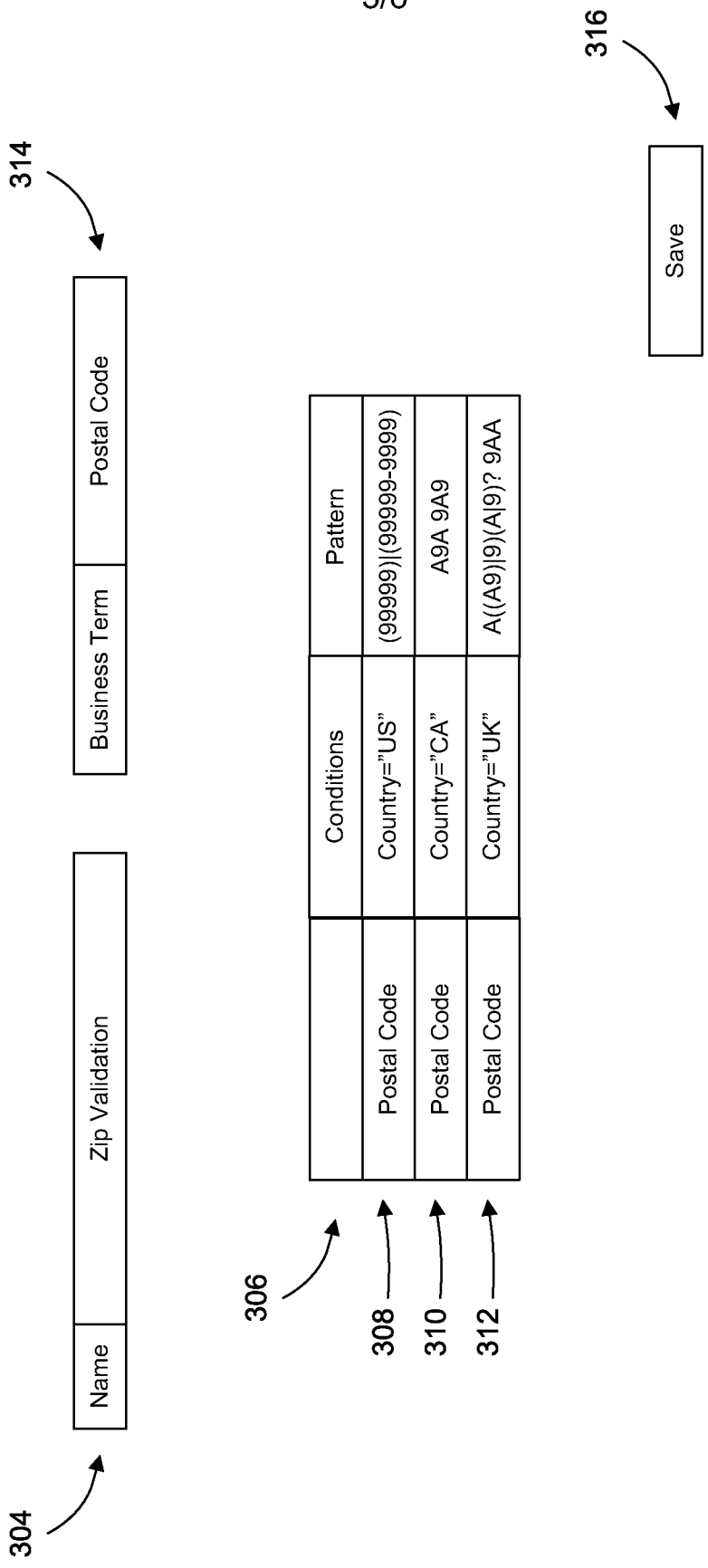

224
256
Business Term
254
Name
228
225
242
230
218
Conditions
Condition 1
Term 1
Term 2
Term 3
Term M
Validation Rule 1
Rule Parameter1,1
Validation Rule 2
Rule Parameter2,2
Rule Parameter2,3
Validation Rule N
Rule ParameterN,M
232
238
234
252
250
240
236
226
112

FIG. 2


316
Save
314
Postal Code
Business Term
Zip Validation
Name
304
306
Pattern
Conditions
(99999)|(99999-9999)
A9A 9AA
A((A9)|9)(A|9)? 9AA
Country="US"
Country="CA"
Country="UK"
Postal Code
Postal Code
Postal Code
308
310
312

300

FIG. 3A

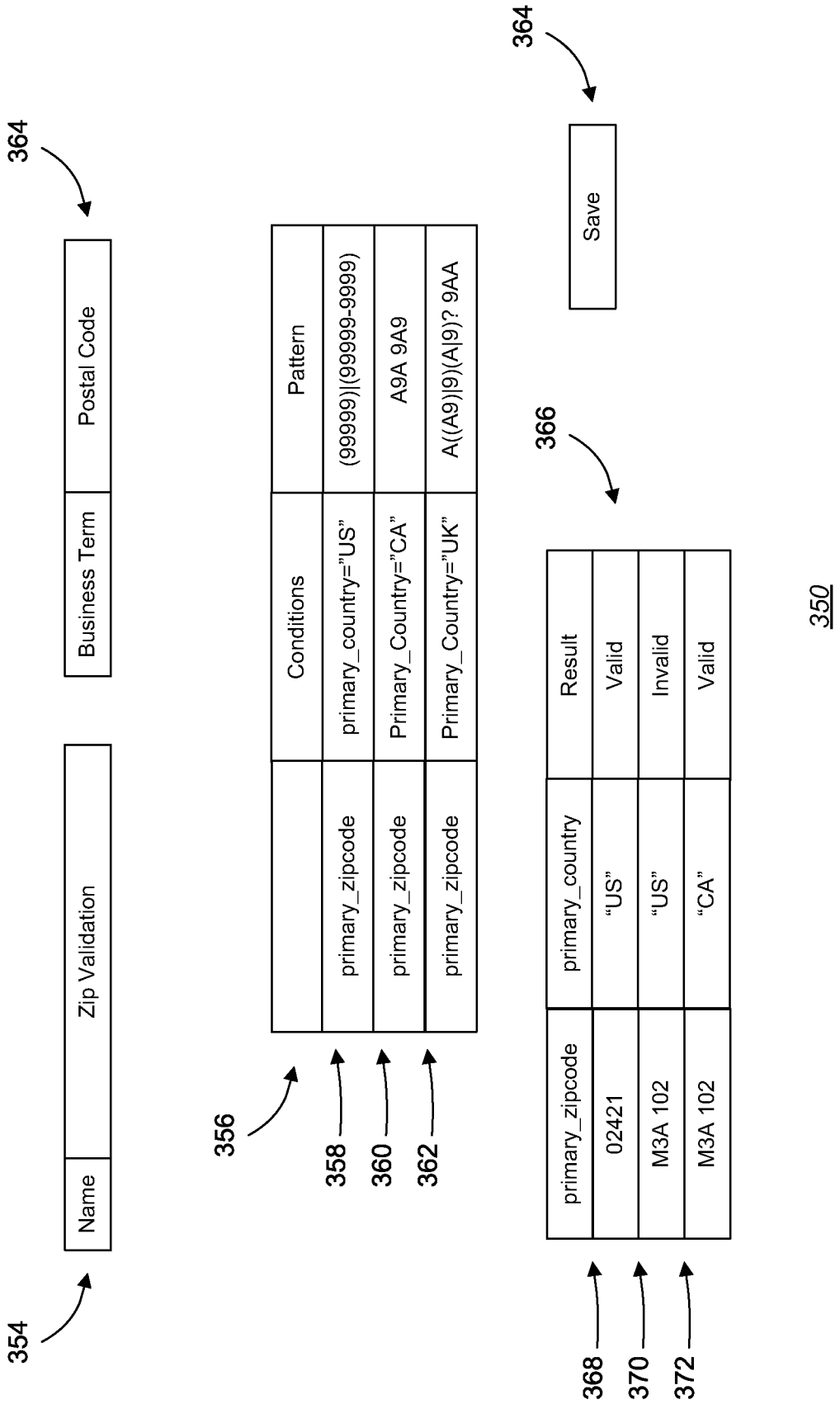

364
Save
364
Business Term
Postal Code
Name
Zip Validation
354
356
Conditions
Pattern
primary_zipcode
primary_country="US"
(99999)|(99999-9999)
358
primary_zipcode
Primary_Country="CA"
A9A 9A9
360
primary_zipcode
Primary_Country="UK"
A((A9)|9)(A|9)? 9AA
362
366
primary_zipcode
primary_country
Result
02421
"US"
Valid
368
M3A 102
"US"
Invalid
370
M3A 102
"CA"
Valid
372
350

FIG. 3B

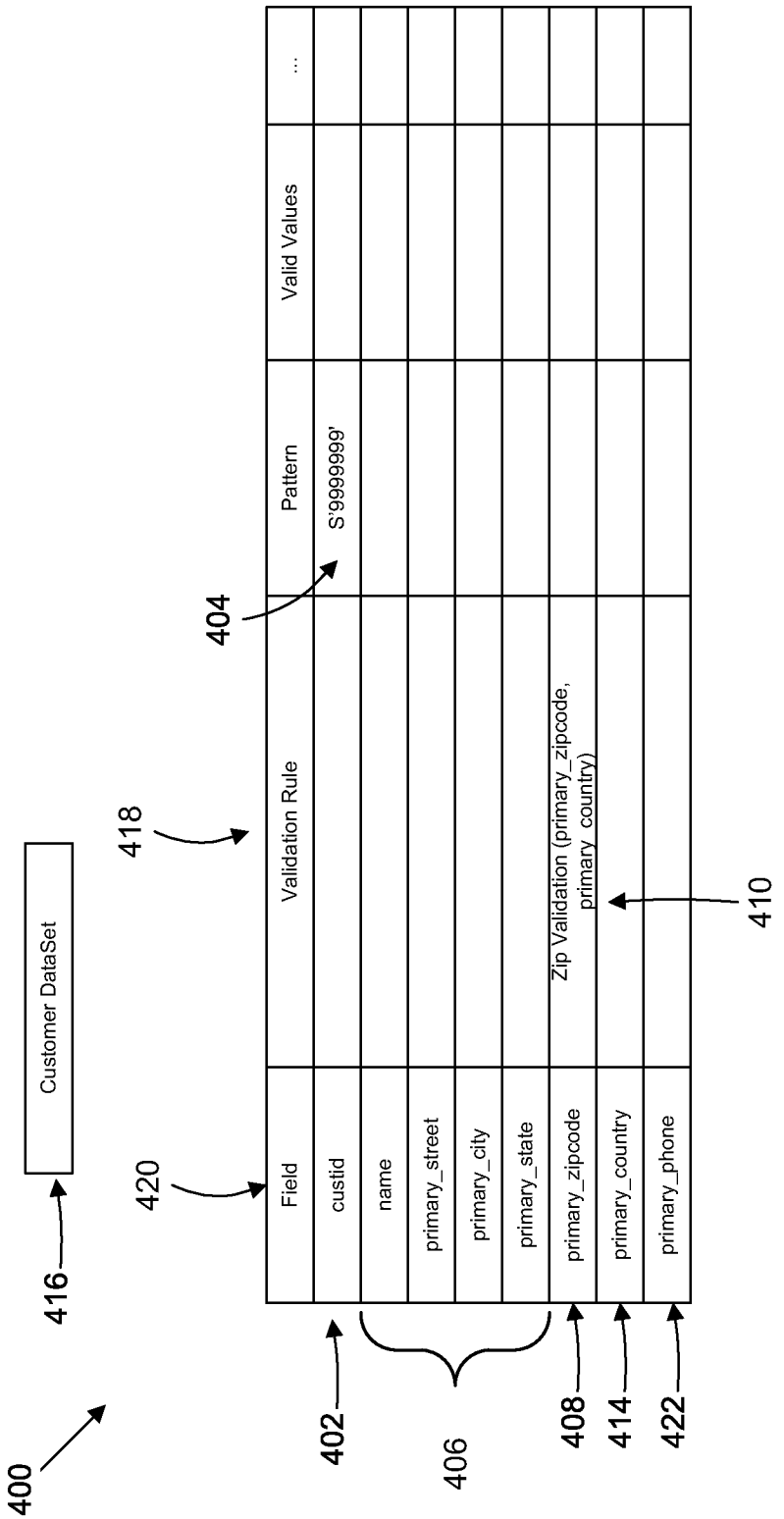

400
Customer DataSet
416
420
418
404
410
402
406
408
414
422
Field
Validation Rule
Pattern
Valid Values
...
custid
S'9999999'
name
primary_street
primary_city
primary_state
Zip Validation (primary_zipcode, primary_country)
primary_zipcode
primary_country
primary_phone

FIG. 4

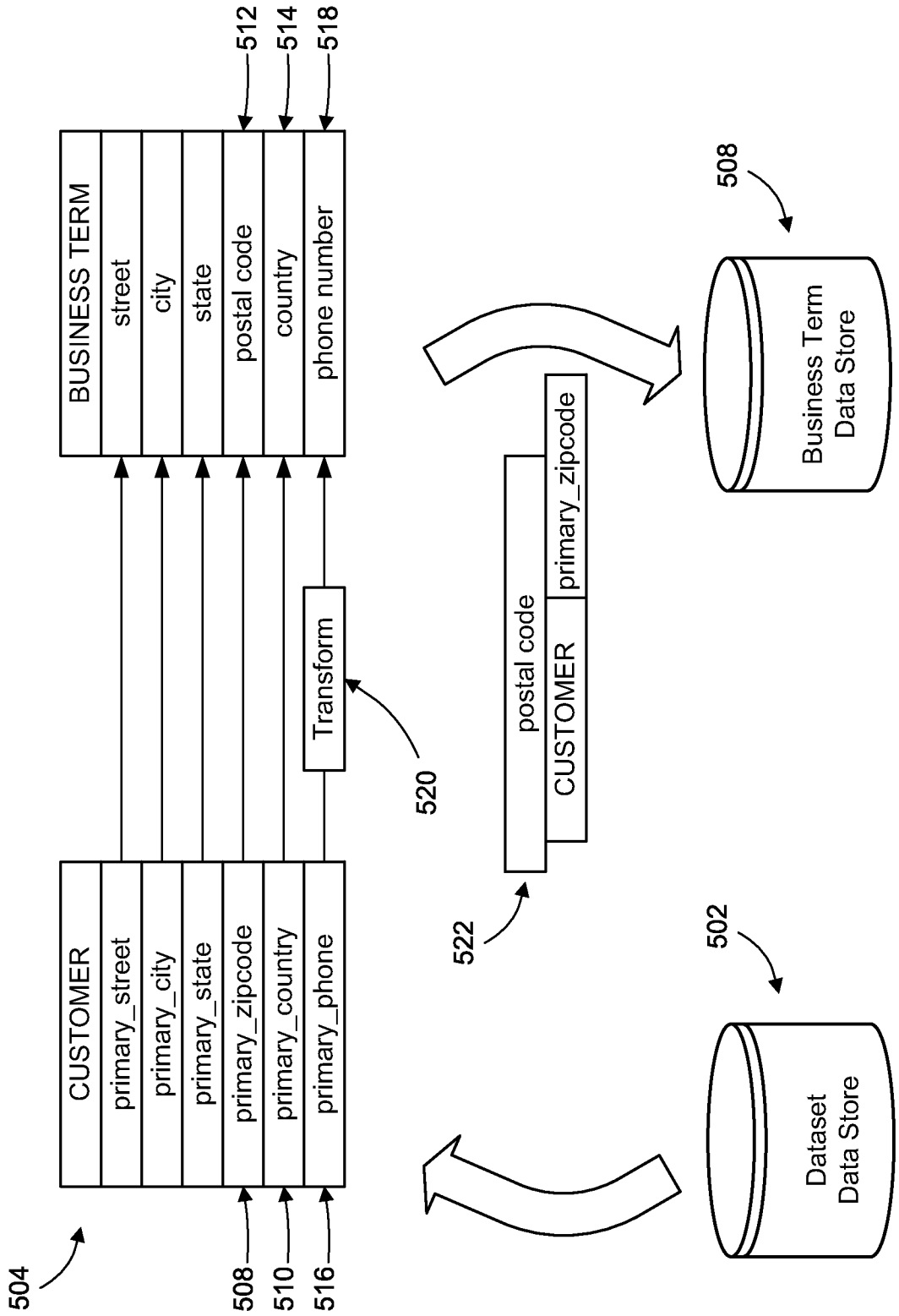

BUSINESS TERM
street
city
state
postal code
country
phone number
512
514
518
CUSTOMER
primary_street
primary_city
primary_state
primary_zipcode
primary_country
primary_phone
504
508
510
516
Transform
520
postal code
CUSTOMER
primary_zipcode
522
508
Business Term Data Store
502
Dataset Data Store

FIG. 5