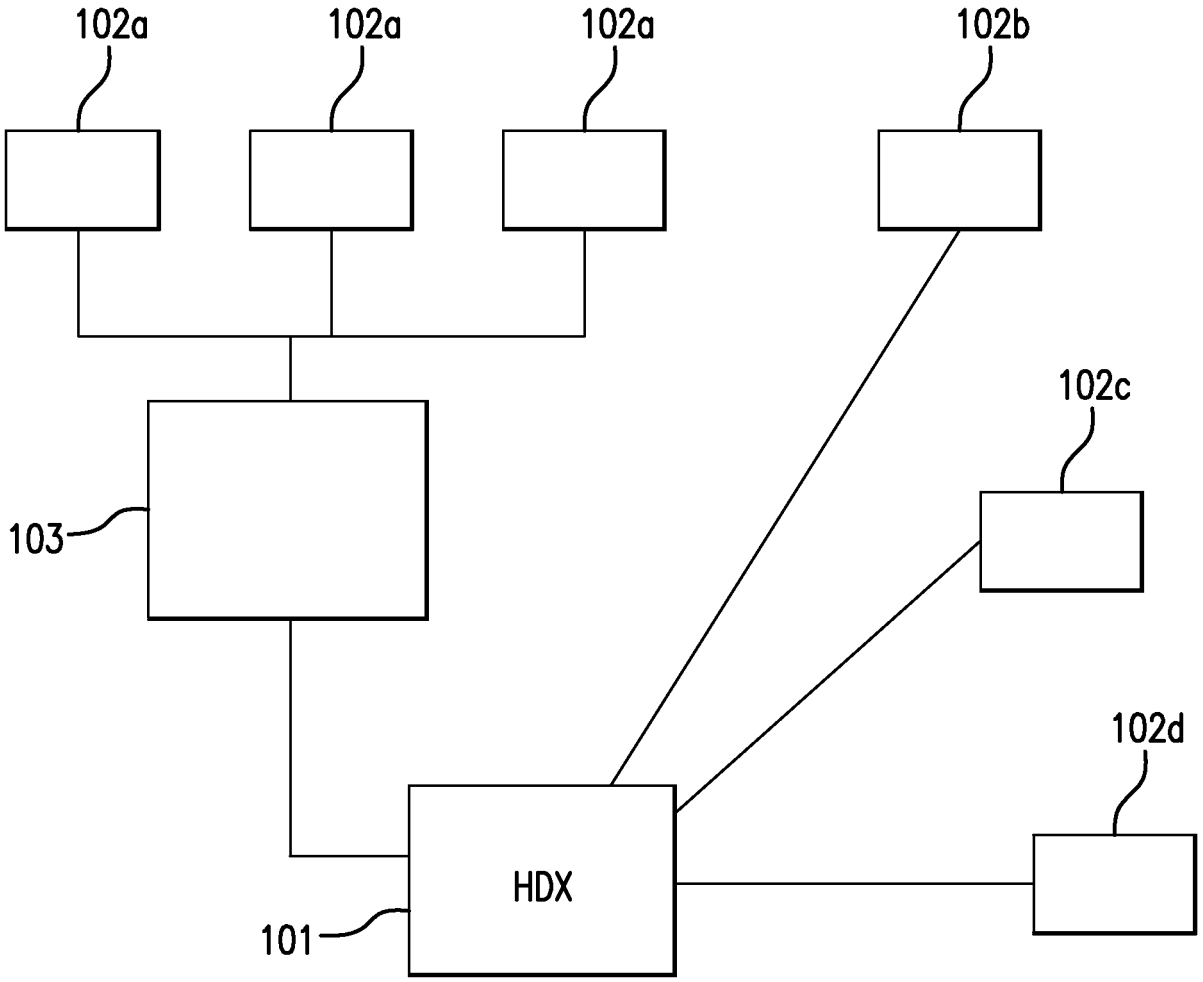


FIG.1A

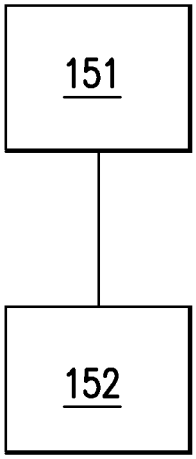


FIG.1B

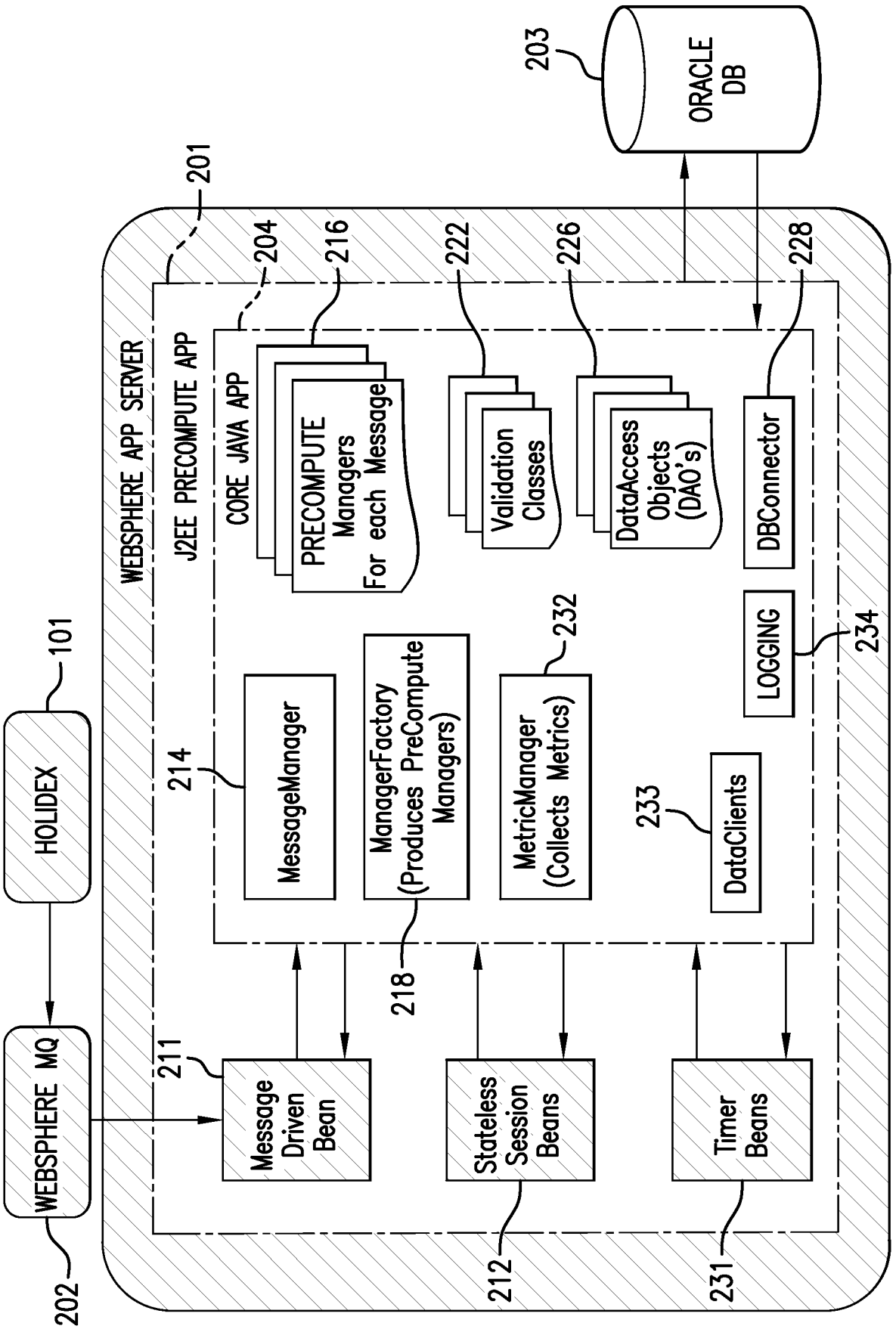

ORACLE DB
203
201
WEBSPHERE APP SERVER
J2EE PRECOMPUTE APP
204
CORE JAVA APP
216
PRECOMPUTE Managers For each Message
222
Validation Classes
226
DataAccess Objects (DAO's)
228
DBConnector
LOGGING
234
232
MetricManager (Collects Metrics)
233
DataClients
214
MessageManager
ManagerFactory (Produces PreCompute Managers)
218
HOLIDEX
101
WEBSPHERE MQ
202
211
Message Driven Bean
Stateless Session Beans
212
Timer Beans
231

FIG.2

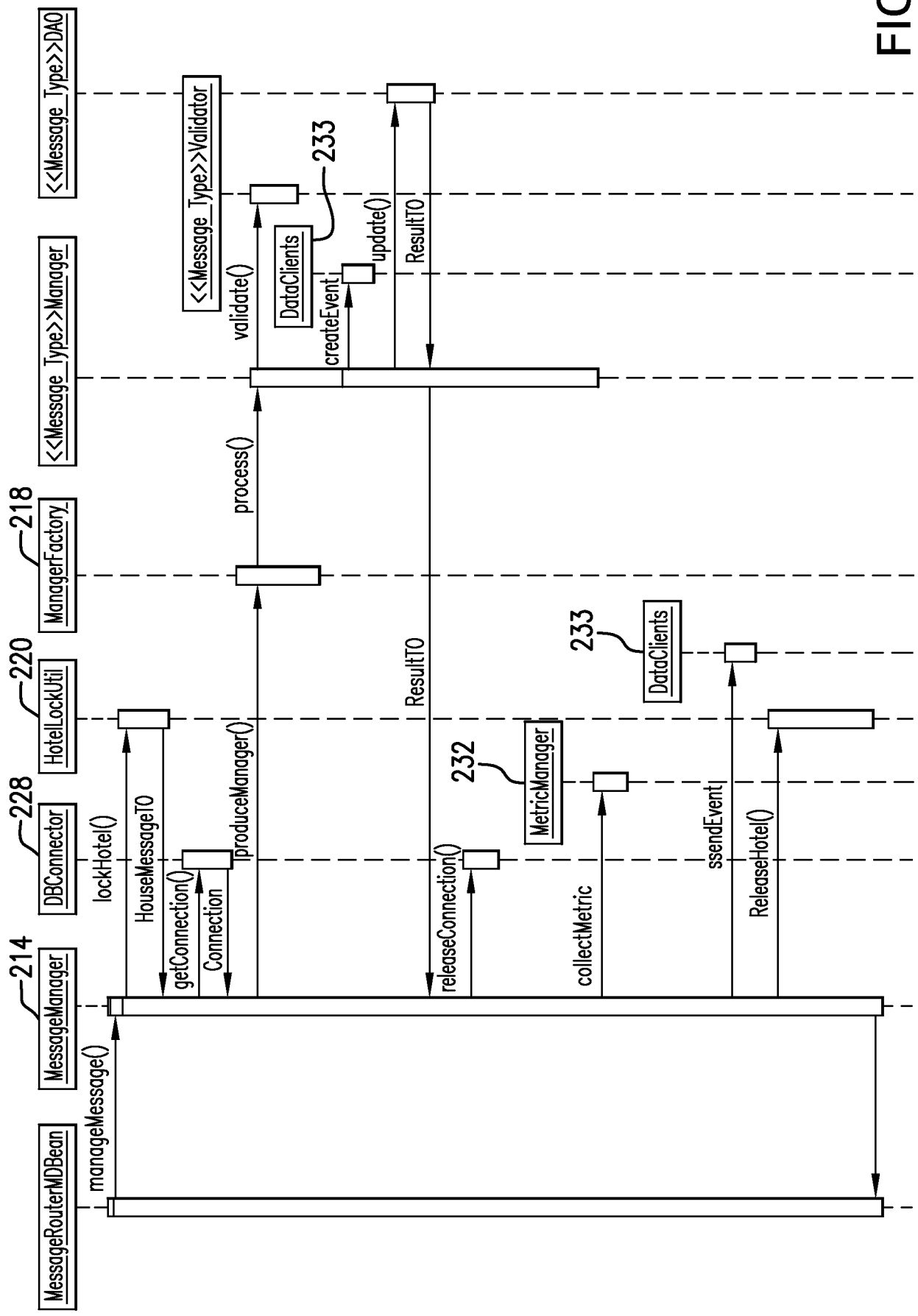

<<Message_Type>>DAO
<<Message_Type>>Validator
<<Message_Type>>Manager
ManagerFactory
HotelLockUtil
DBConnector
MessageManager
MessageRouterMDBean
218
220
228
214
233
232
validate()
DataClients
createEvent
update()
ResultTO
process()
ResultTO
produceManager()
lockHotel()
HouseMessageTO
getConnection()
Connection
releaseConnection()
MetricManager
collectMetric
ssendEvent
ReleaseHotel()
manageMessage()

FIG.3

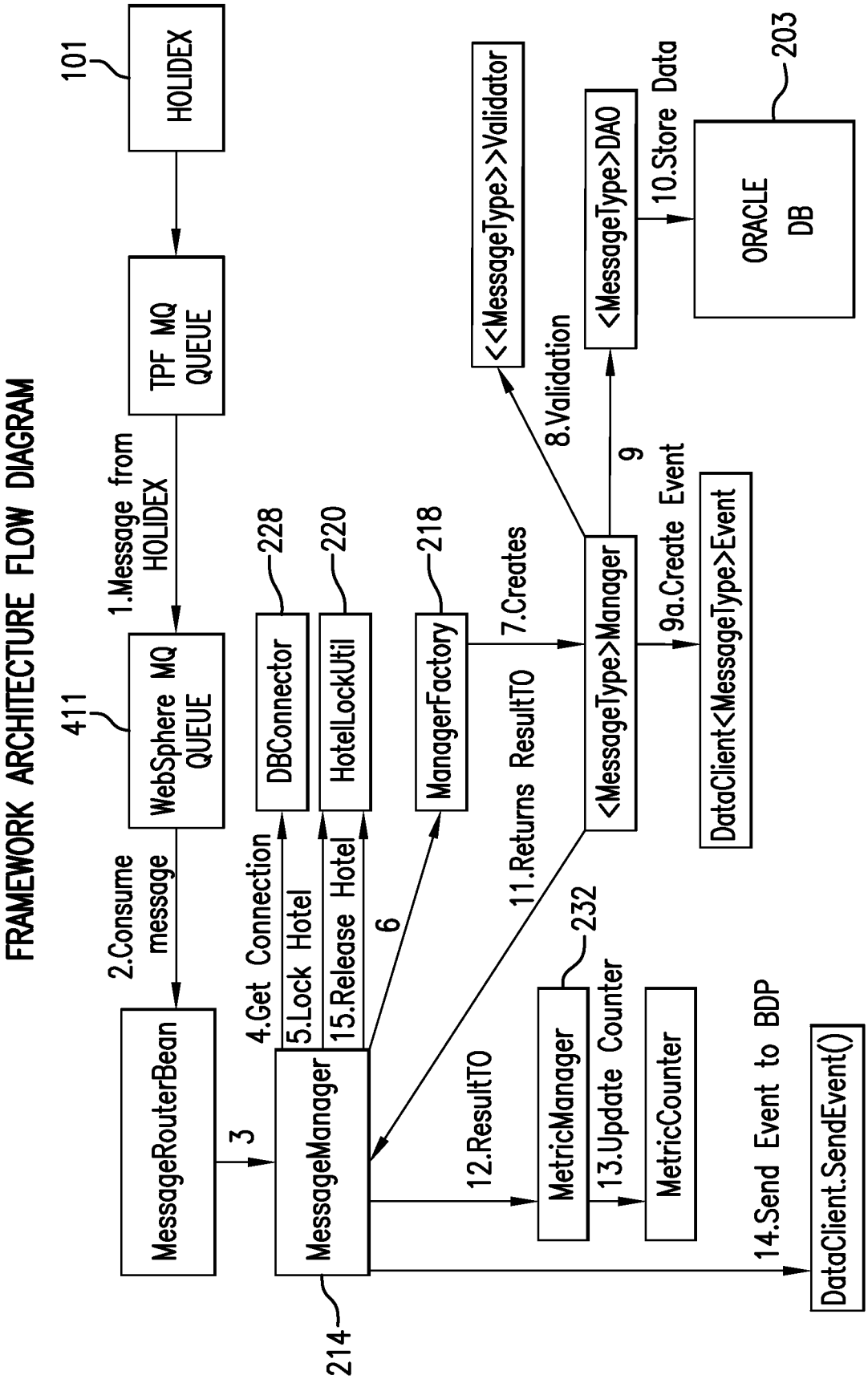

FRAMEWORK ARCHITECTURE FLOW DIAGRAM
101
HOLIDEX
TPF MQ QUEUE
1.Message from HOLIDEX
411
WebSphere MQ QUEUE
2.Consume message
MessageRouterBean
3
MessageManager
214
4.Get Connection
5.Lock Hotel
15.Release Hotel
DBConnector
228
HotelLockUtil
220
6
ManagerFactory
218
7.Creates
11.Returns ResultTO
12.ResultTO
MetricManager
232
13.Update Counter
MetricCounter
14.Send Event to BDP
DataClient.SendEvent()
<<MessageType>>Validator
8.Validation
<MessageType>Manager
9
<MessageType>DAO
10.Store Data
ORACLE DB
203
9a.Create Event
DataClient<MessageType>Event

FIG. 4

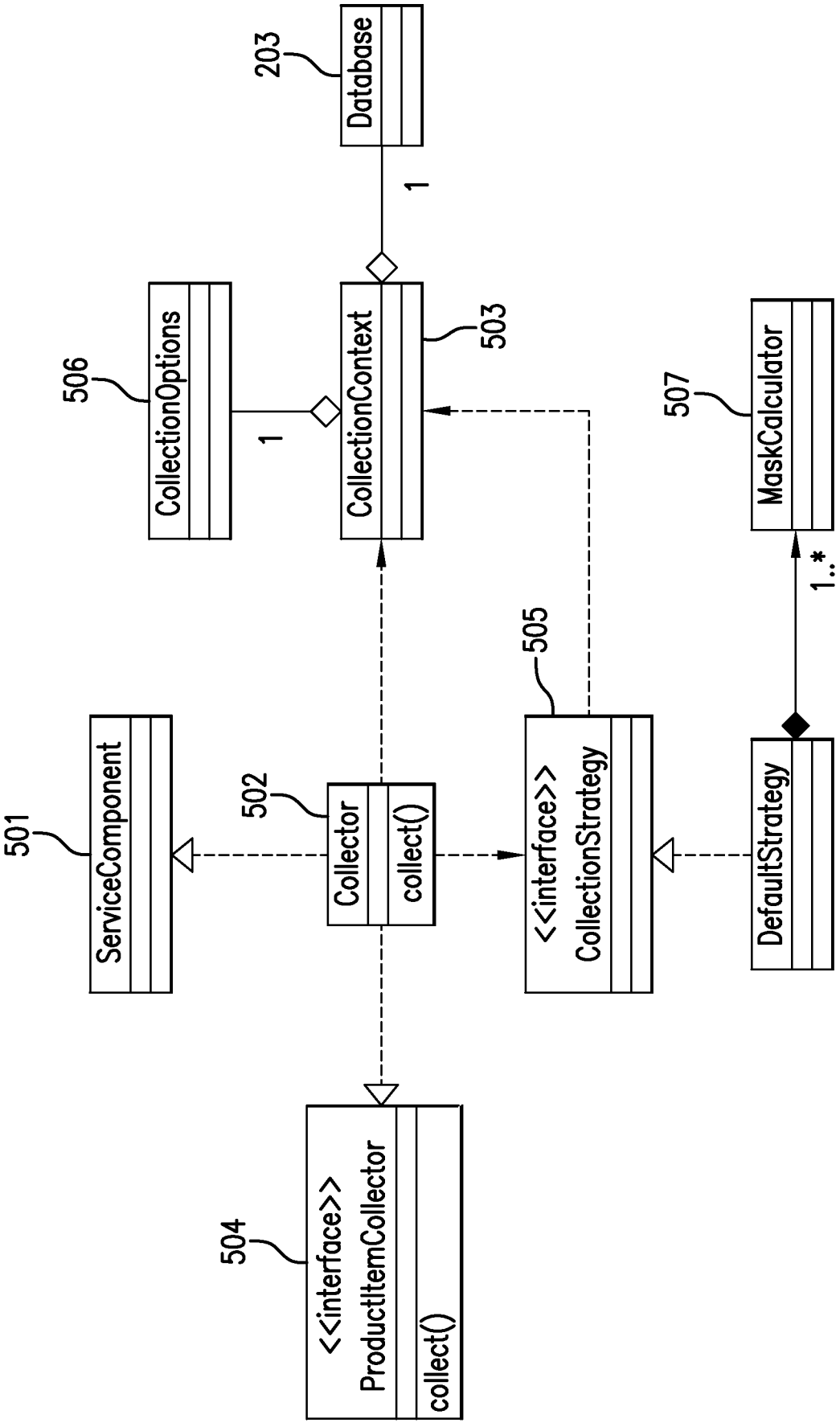

203
Database
1
506
CollectionOptions
1
CollectionContext
503
507
MaskCalculator
1..*
505
501
ServiceComponent
502
Collector
collect()
<<interface>>
CollectionStrategy
DefaultStrategy
504
<<interface>>
ProductItemCollector
collect()

FIG.5

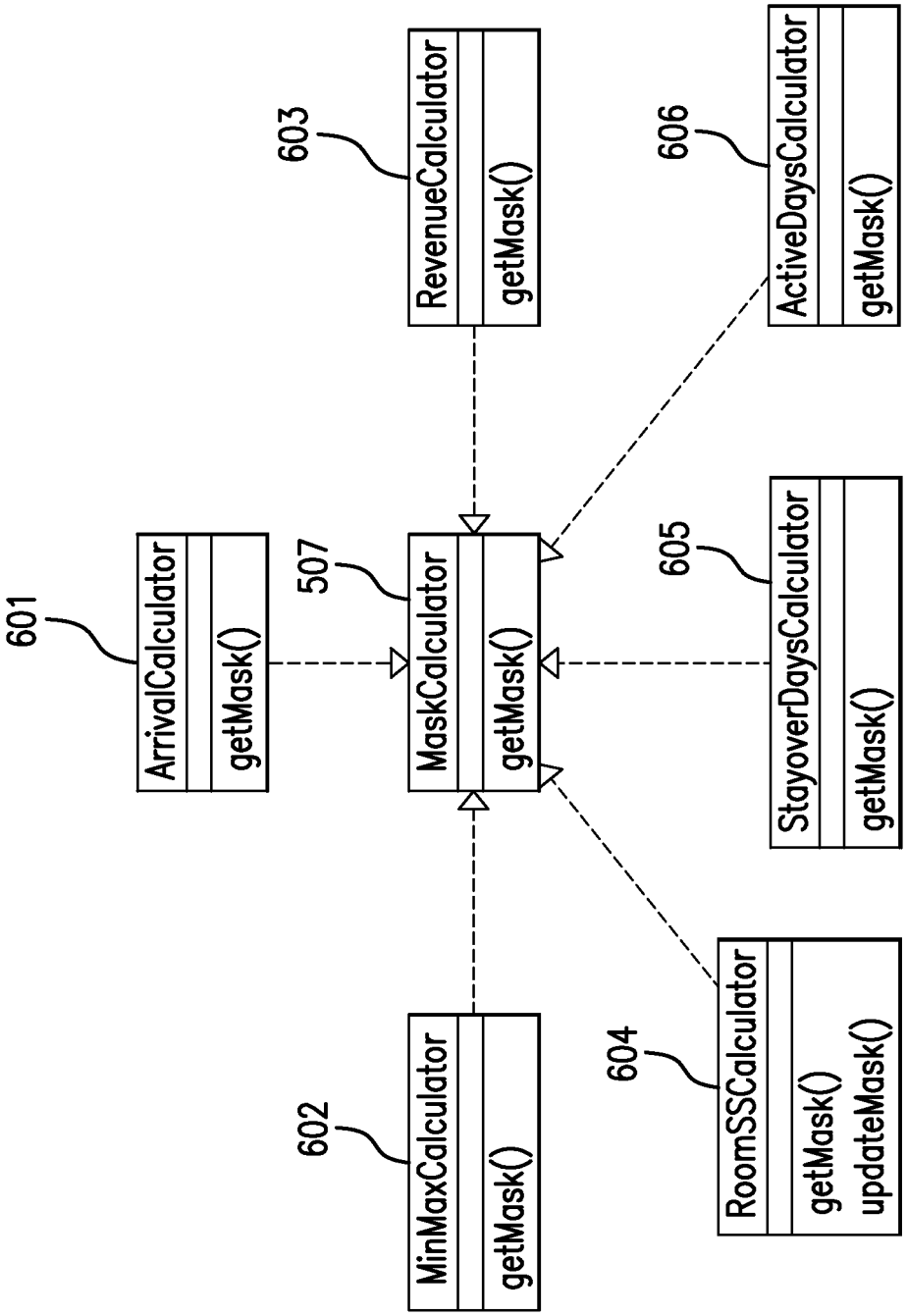

601
ArrivalCalculator
getMask()
507
MaskCalculator
getMask()
602
MinMaxCalculator
getMask()
603
RevenueCalculator
getMask()
604
RoomSSCalculator
getMask()
updateMask()
605
StayoverDaysCalculator
getMask()
606
ActiveDaysCalculator
getMask()

FIG.6

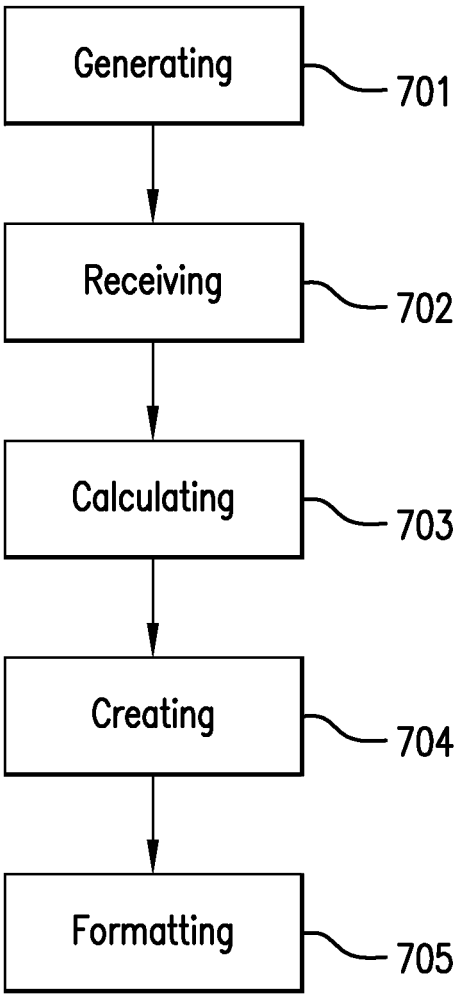

Generating
701
Receiving
702
Calculating
703
Creating
704
Formatting
705

FIG. 7