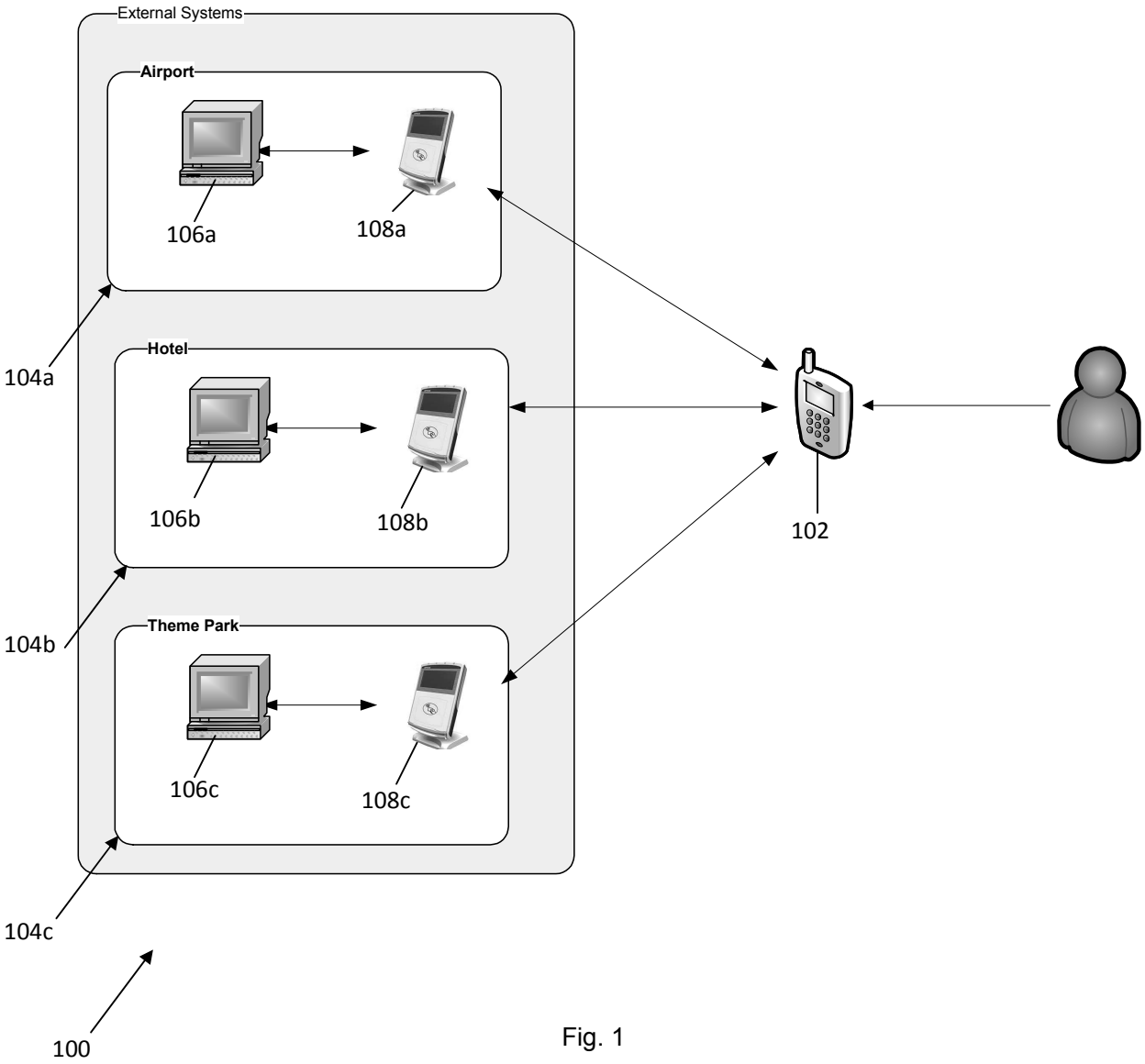
External Systems
Airport
106a
108a
Hotel
106b
108b
Theme Park
106c
108c
104a
104b
104c
100
102

Fig. 1

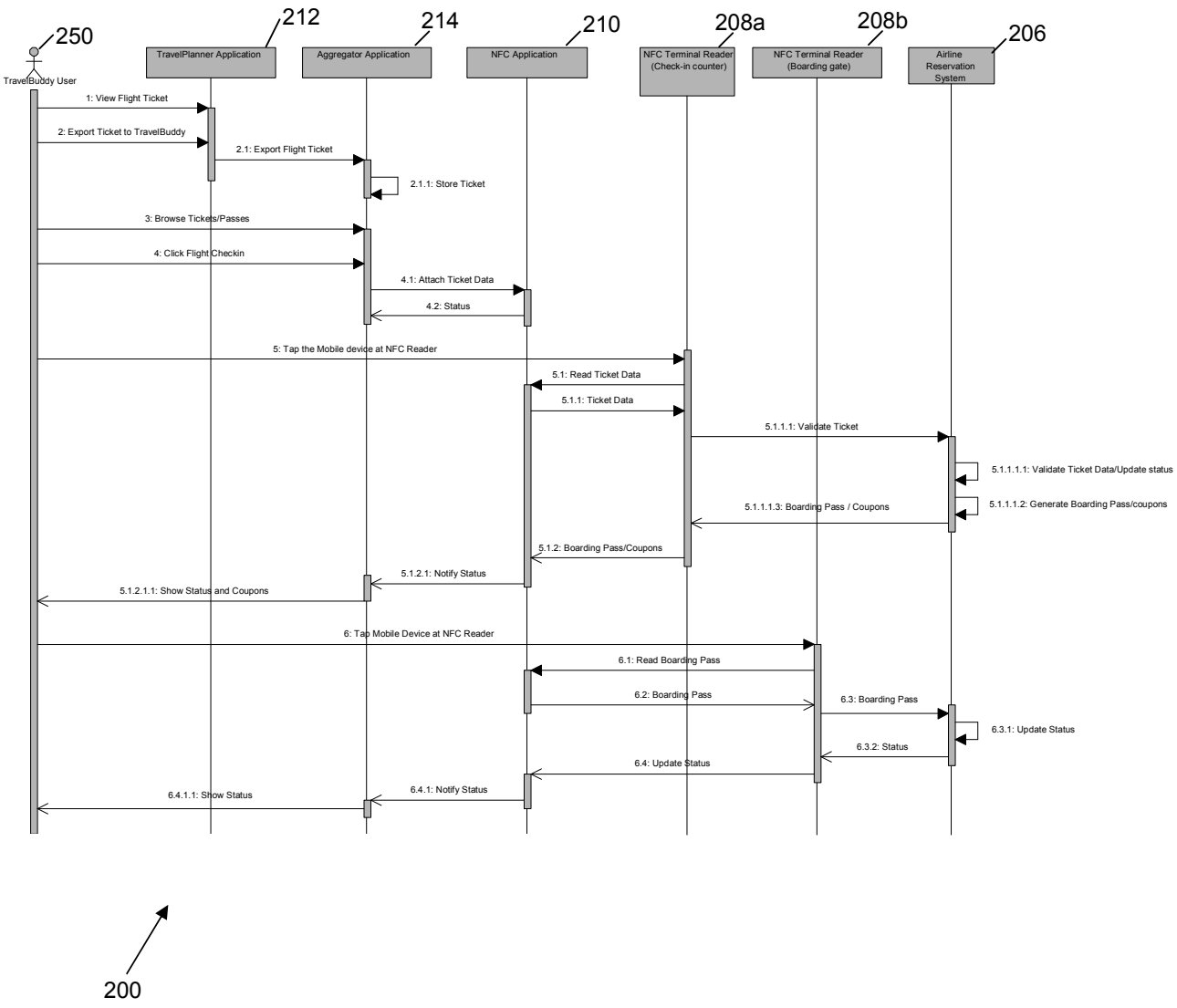
250
TravelBuddy User
212
TravelPlanner Application
214
Aggregator Application
210
NFC Application
208a
NFC Terminal Reader (Check-in counter)
208b
NFC Terminal Reader (Boarding gate)
206
Airline Reservation System
1: View Flight Ticket
2: Export Ticket to TravelBuddy
2.1: Export Flight Ticket
2.1.1: Store Ticket
3: Browse Tickets/Passes
4: Click Flight Checkin
4.1: Attach Ticket Data
4.2: Status
5: Tap the Mobile device at NFC Reader
5.1: Read Ticket Data
5.1.1: Ticket Data
5.1.1.1: Validate Ticket
5.1.1.1.1: Validate Ticket Data/Update status
5.1.1.1.2: Generate Boarding Pass/coupons
5.1.1.1.3: Boarding Pass / Coupons
5.1.2: Boarding Pass/Coupons
5.1.2.1: Notify Status
5.1.2.1.1: Show Status and Coupons
6: Tap Mobile Device at NFC Reader
6.1: Read Boarding Pass
6.2: Boarding Pass
6.3: Boarding Pass
6.3.1: Update Status
6.3.2: Status
6.4: Update Status
6.4.1: Notify Status
6.4.1.1: Show Status
200

Fig. 2

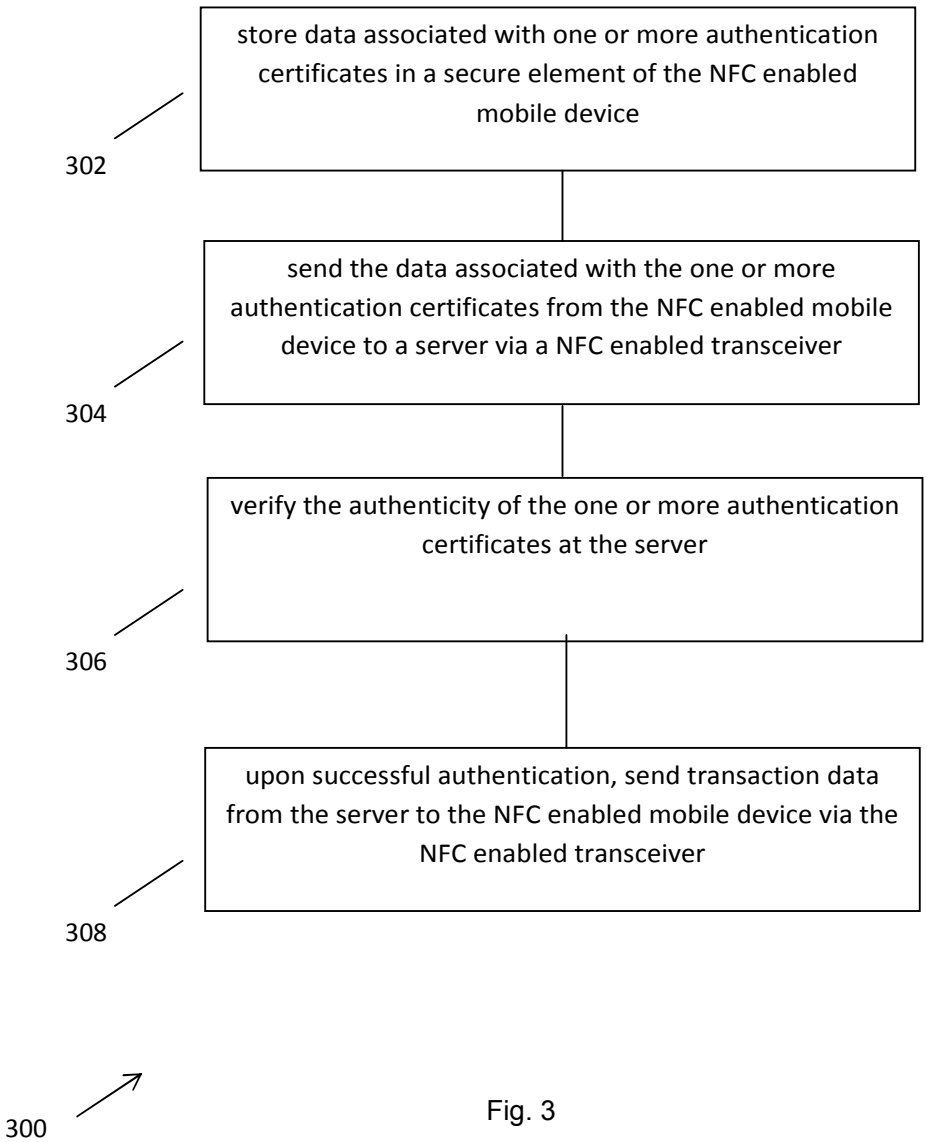
store data associated with one or more authentication certificates in a secure element of the NFC enabled mobile device
302
send the data associated with the one or more authentication certificates from the NFC enabled mobile device to a server via a NFC enabled transceiver
304
verify the authenticity of the one or more authentication certificates at the server
306
upon successful authentication, send transaction data from the server to the NFC enabled mobile device via the NFC enabled transceiver
308
300

Fig. 3

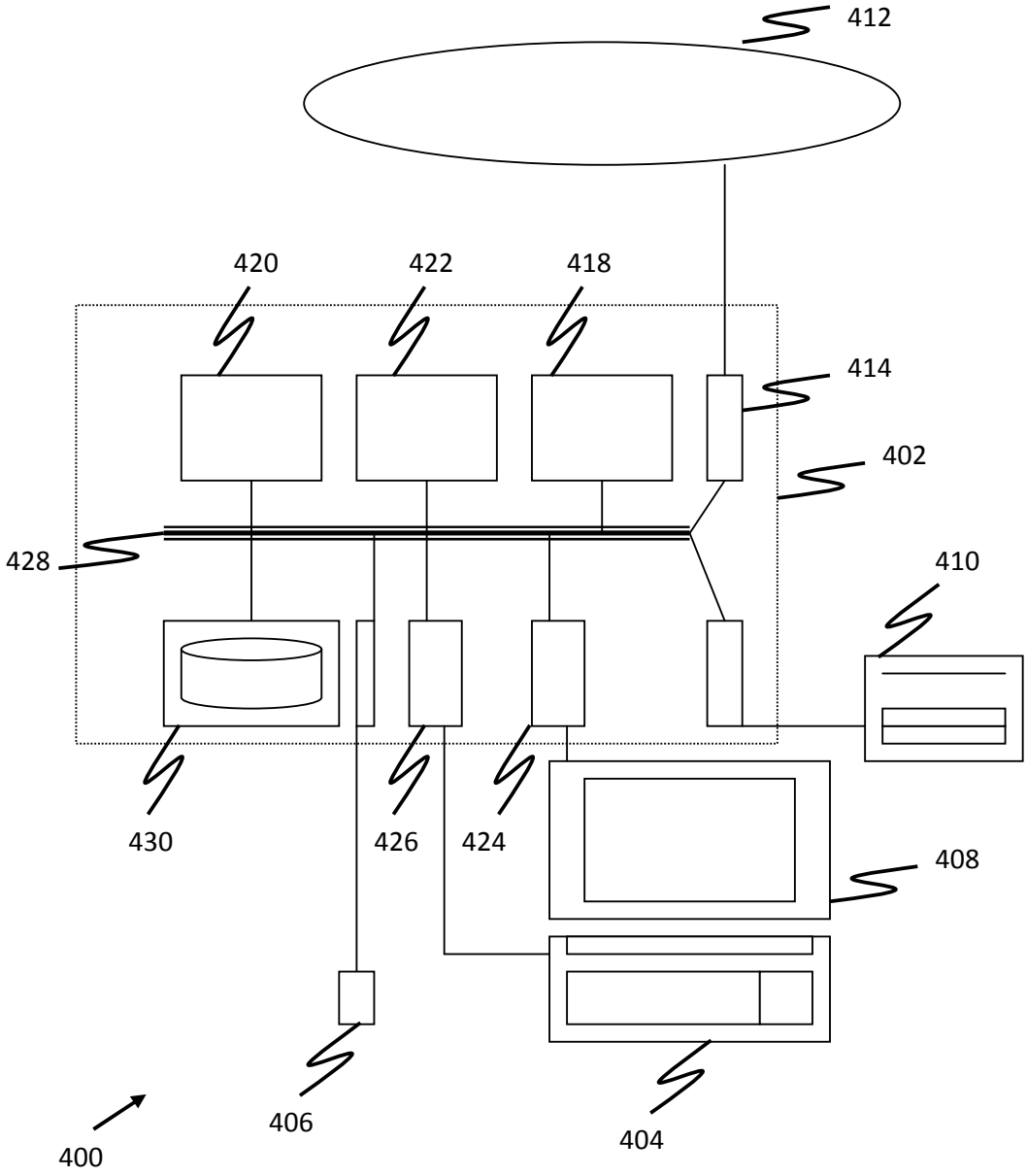

Fig. 4