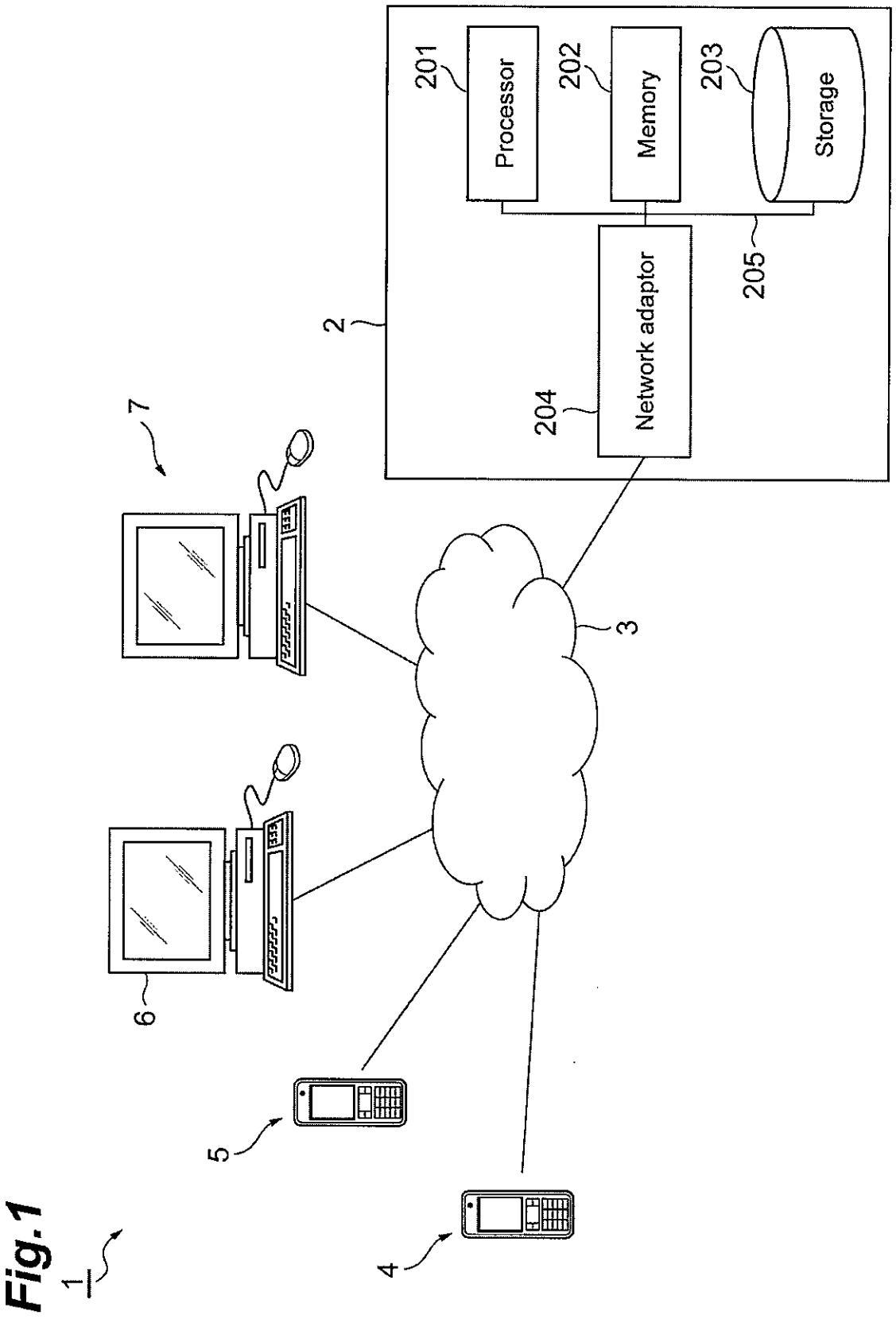

1
2
201
Processor
202
Memory
203
Storage
204
Network adaptor
205
3
4
5
6
7

Fig.1

Fig.2

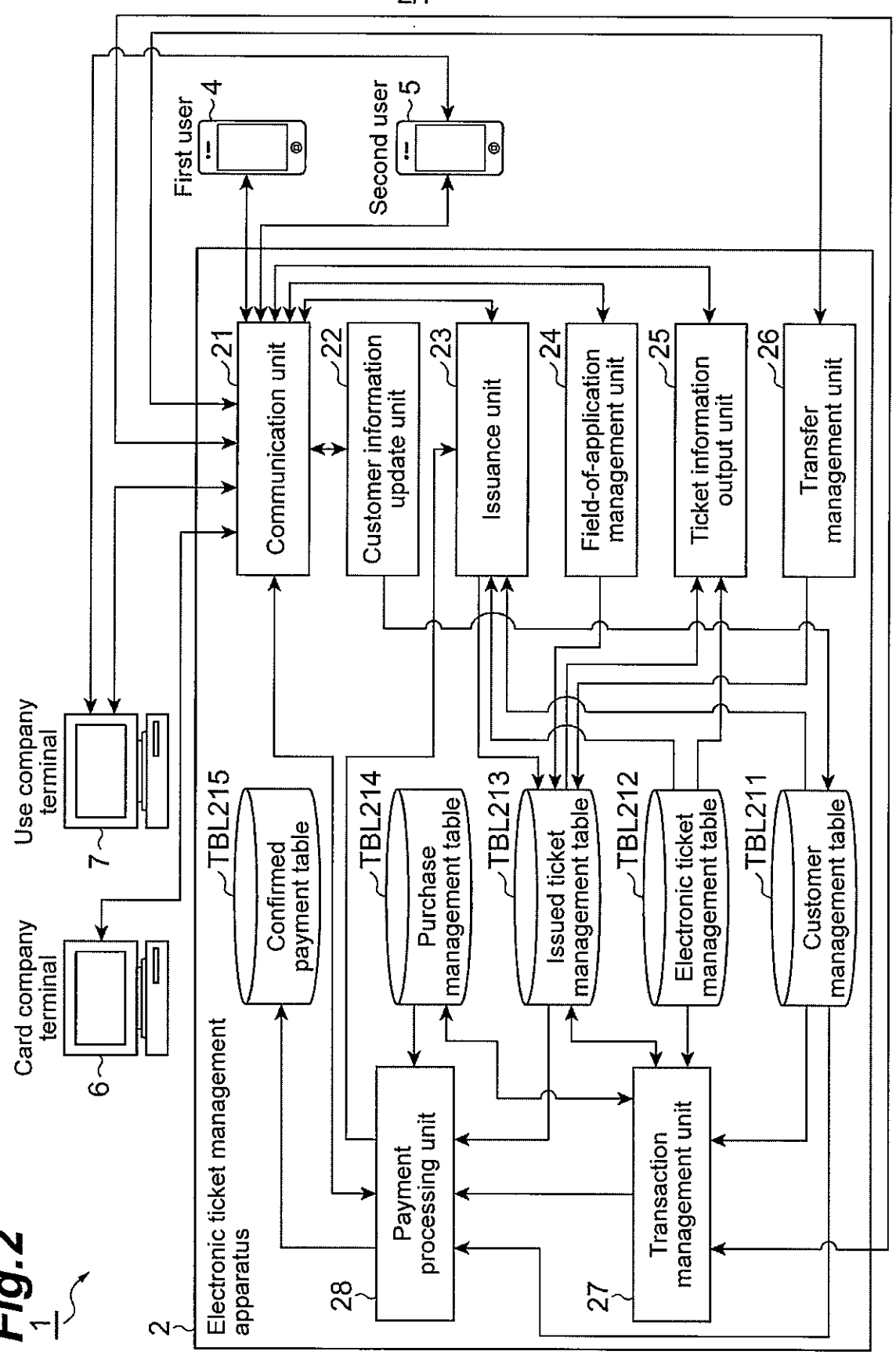

1
2
Electronic ticket management apparatus
First user
4
Second user
5
Use company terminal
7
Card company terminal
6
Communication unit
21
Customer information update unit
22
Issuance unit
23
Field-of-application management unit
24
Ticket information output unit
25
Transfer management unit
26
Payment processing unit
28
Transaction management unit
27
TBL215
Confirmed payment table
TBL214
Purchase management table
TBL213
Issued ticket management table
TBL212
Electronic ticket management table
TBL211
Customer management table

*Fig.3A*

TBL211

| User ID | Name | User type | Notification destination | Card number |
|---|---|---|---|---|
| 10001 | OΔ supermarket | 1 | abab.com | ********** |
| 10002 | Taro Yamada | 2 | 080--xxxx--xxxx | ********** |
| 10003 | Ichiro Suzuki | 2 | 090--xxxx--xxxx | ********** |
| 10004 | Hanako Sato | 2 | 070--xxxx--xxxx | ********** |
| 10005 | ○×taxi | 1 | cdcd.com | ********** |
| ... | ... | ... | ... | ... |

*Fig.3B*

TBL212

| Ticket ID | Purpose for which money is spent | Use company ID (User ID) | Settable amount |
|---|---|---|---|
| 50001 | Coffee purchase | 10001 | 100 yen to 180 yen |
| 50002 | Taxi travel | 10005,10008,10331 | 550 yen to 20,000 yen |
| 50003 | Cup noodle purchase | 10001 | 120 yen to 350 yen |
| ... | ... | ... | ... |
| 99999 | Free | Free | Free |

# Fig.4A

TBL213

| Issued ticket ID | Ticket ID | Upper limit amount of use | Valid period | Payer ID (user ID) | Authorized user ID (user ID) | Use completion flag |
|---|---|---|---|---|---|---|
| 1 | 50001 | 120 yen | 2015/09/03～2015/12/31 | 10002 | 10002 | 1 |
| 2 | 50002 | 4000 yen | 2015/09/04～2015/09/25 | 10002 | 10003 | 1 |
| 3 | 50003 | 200 yen | 2015/09/05～2015/10/30 | 10003 | 10002 | 1 |
| 4 | 50002 | 10,000 yen | 2015/09/05～2015/11/30 | 10003 | 10002 | 0 |
| 5 | 99999 | Free | 2015/09/06～2015/12/30 | 10002 | 10003 | 0 |
| ... | ... | ... | ... | ... | ... | ... |

# Fig.4B

TBL214

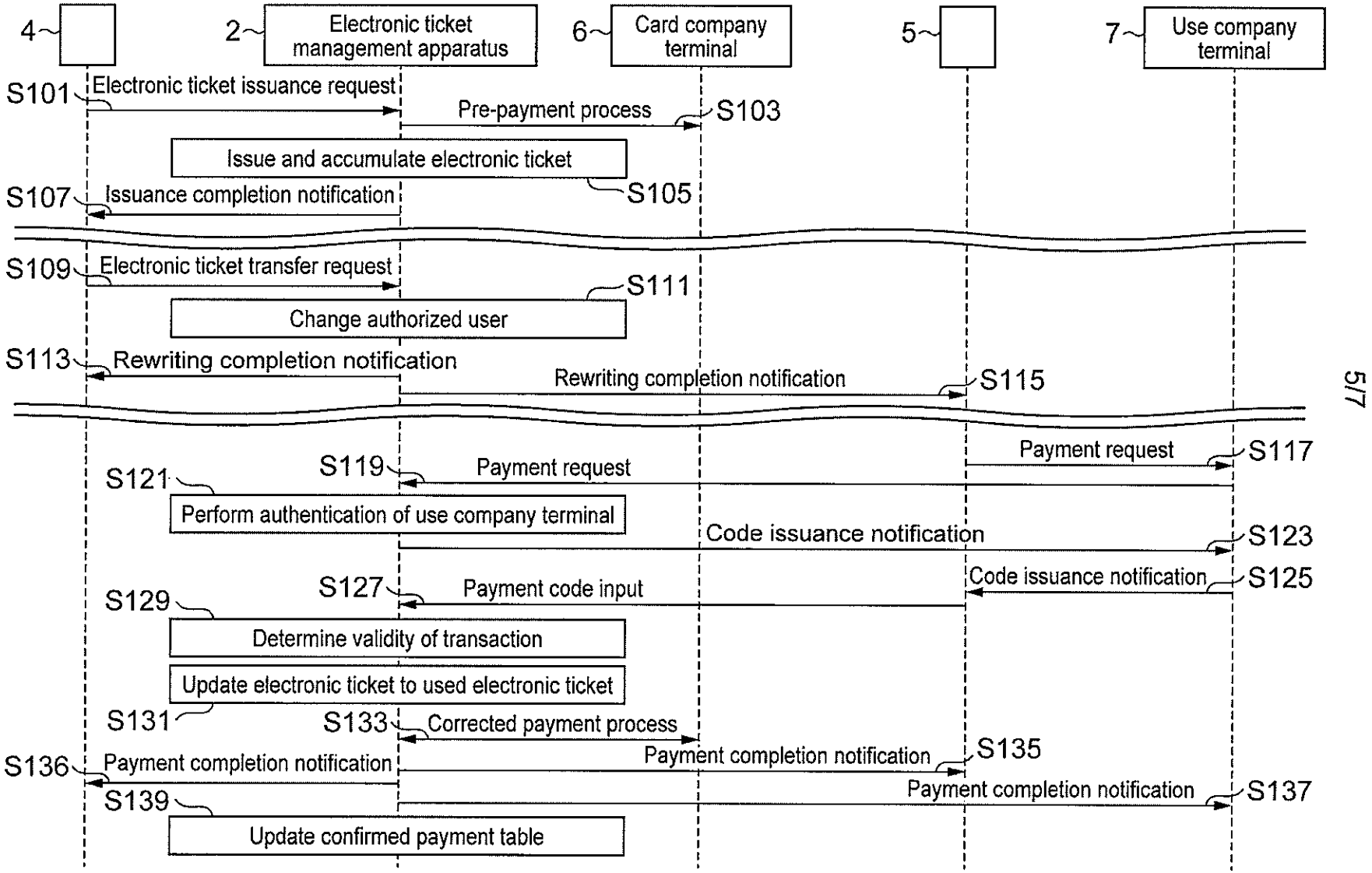
| Use company (user ID) | Used amount of money | Product/service name | Use date and time | Payment code |
|---|---|---|---|---|
| 10001 | 100 yen | ○△coffee | 2015/09/14/18:11:15 | 0001 |
| 10005 | 3500 yen | ○×taxi travel | 2015/09/23/15:21:41 | 0002 |
| 10001 | 200 yen | ××noodles | 2015/09/25/21:15:10 | 0003 |
| ... | ... | ... | ... | ... |

# Fig.4C

TBL215

| Payer ID (user ID) | Payment code | Payment amount |
|---|---|---|
| 10002 | 0001 | 100 yen |
| 10002 | 0002 | 3500 yen |
| 10003 | 0003 | 200 yen |
| ... | ... | ... |

**Fig.5**


4
2
Electronic ticket management apparatus
6
Card company terminal
5
7
Use company terminal
S101
Electronic ticket issuance request
Pre-payment process
S103
Issue and accumulate electronic ticket
S105
S107
Issuance completion notification
S109
Electronic ticket transfer request
S111
Change authorized user
S113
Rewriting completion notification
Rewriting completion notification
S115
Payment request
S117
S119
Payment request
S121
Perform authentication of use company terminal
Code issuance notification
S123
S127
Payment code input
Code issuance notification
S125
S129
Determine validity of transaction
Update electronic ticket to used electronic ticket
S131
S133
Corrected payment process
Payment completion notification
S135
S136
Payment completion notification
Payment completion notification
S137
S139
Update confirmed payment table

517

**Fig.6A**

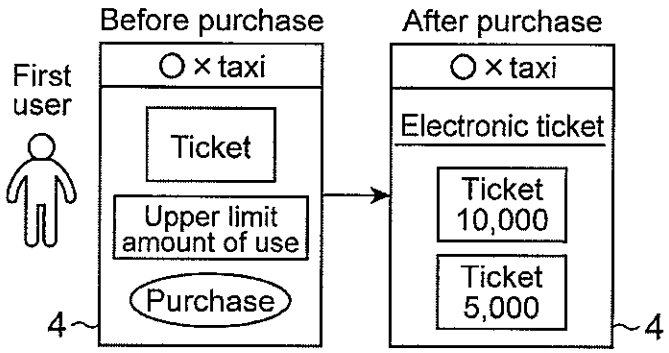



**Fig.6B**

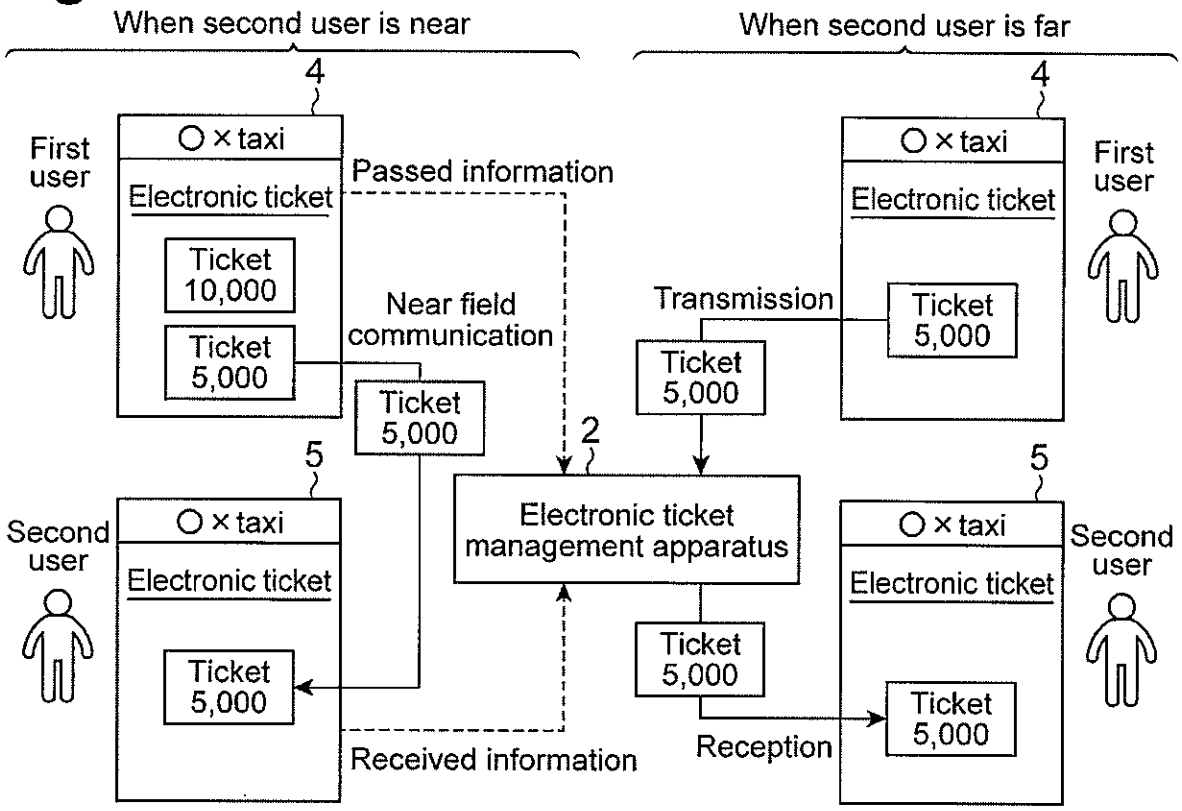



**Fig.6C**

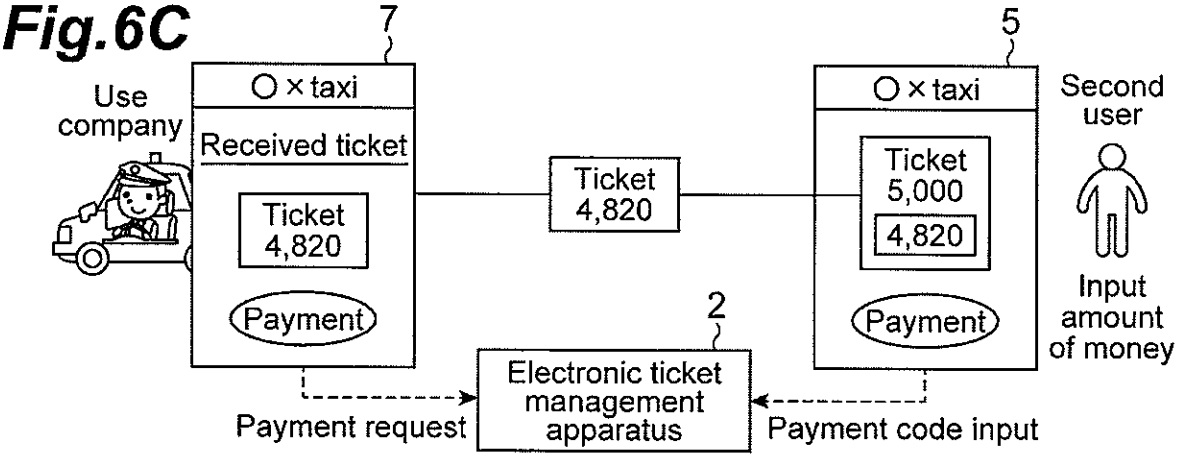
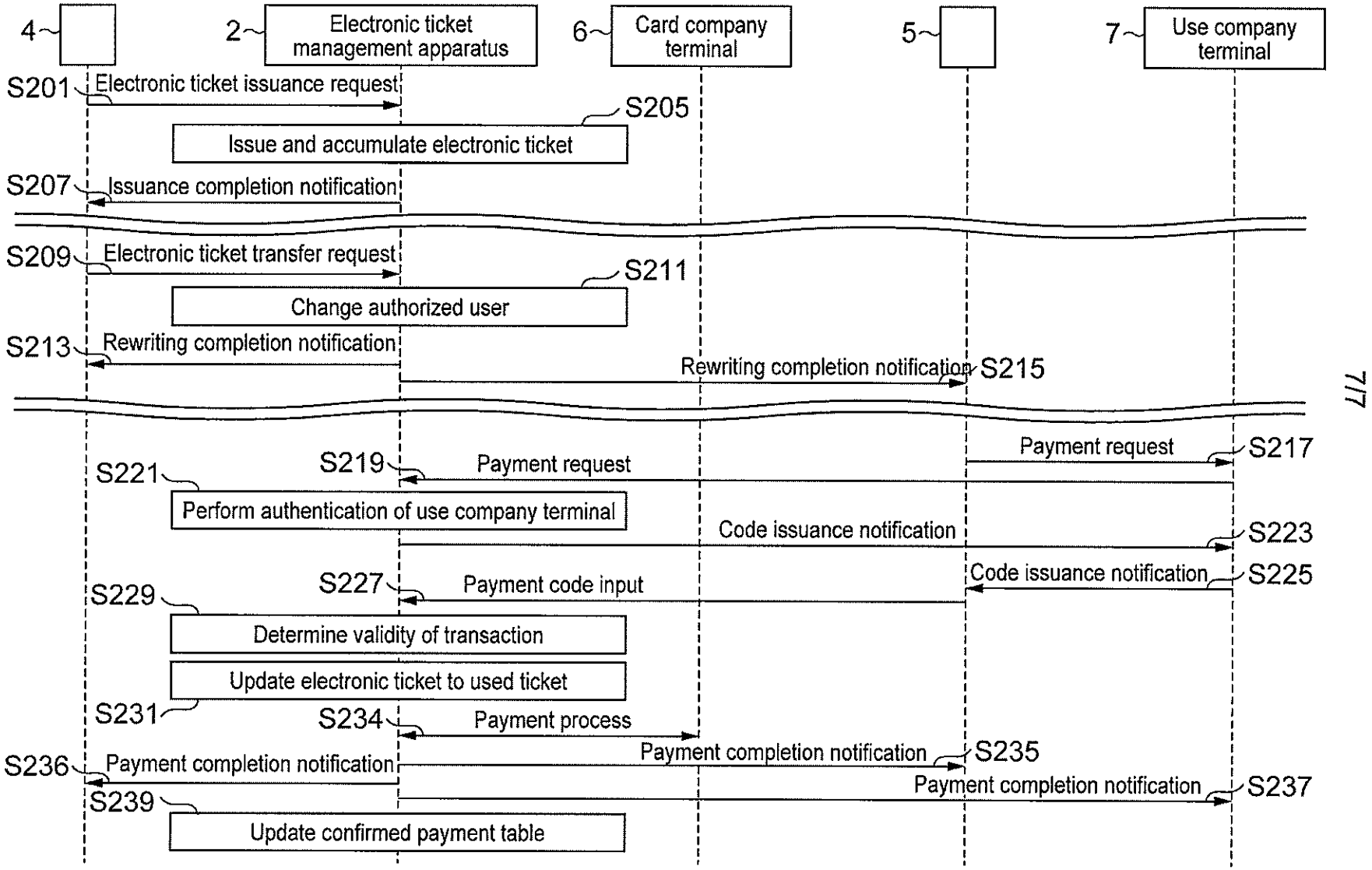


**Fig.7**


4
2
Electronic ticket management apparatus
6
Card company terminal
5
7
Use company terminal
S201
Electronic ticket issuance request
S205
Issue and accumulate electronic ticket
S207
Issuance completion notification
S209
Electronic ticket transfer request
S211
Change authorized user
S213
Rewriting completion notification
Rewriting completion notification
S215
Payment request
S217
S219
Payment request
S221
Perform authentication of use company terminal
Code issuance notification
S223
Code issuance notification
S225
S227
Payment code input
S229
Determine validity of transaction
Update electronic ticket to used ticket
S231
S234
Payment process
Payment completion notification
S235
S236
Payment completion notification
Payment completion notification
S237
S239
Update confirmed payment table

717