Figure 1

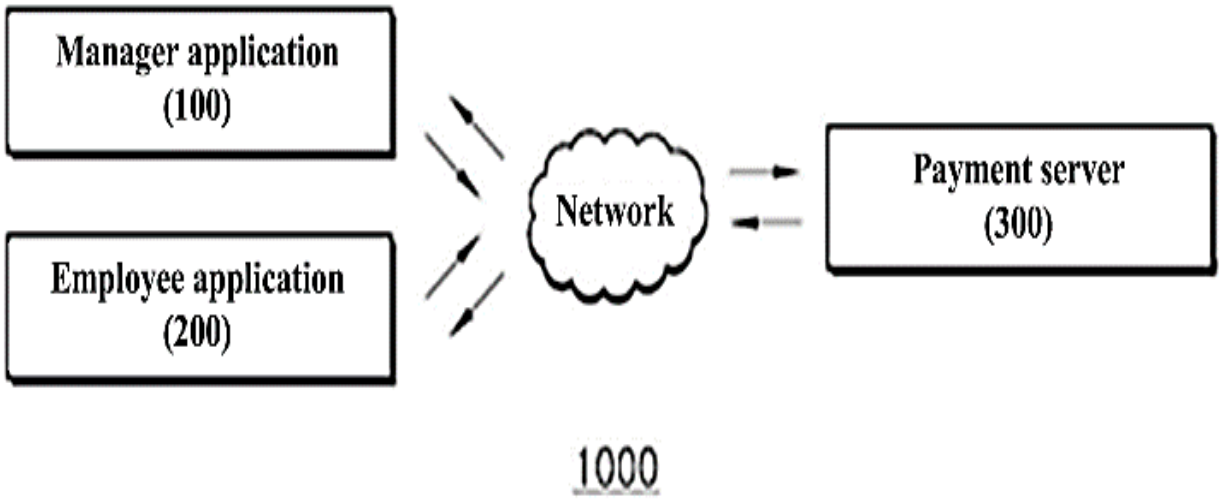

Manager application
(100)
Employee application
(200)
Network
Payment server
(300)
1000

Figure 2

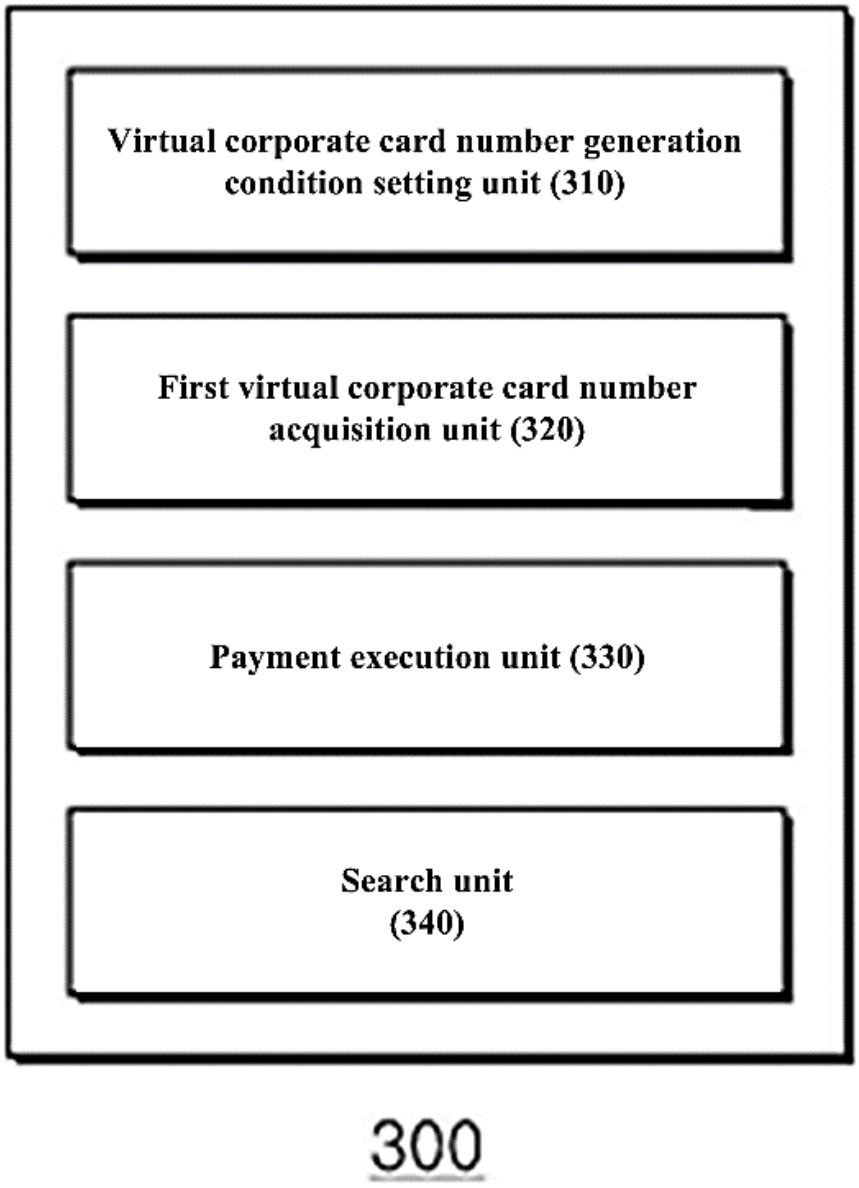

Virtual corporate card number generation condition setting unit (310)
First virtual corporate card number acquisition unit (320)
Payment execution unit (330)
Search unit (340)
300

Figure 3

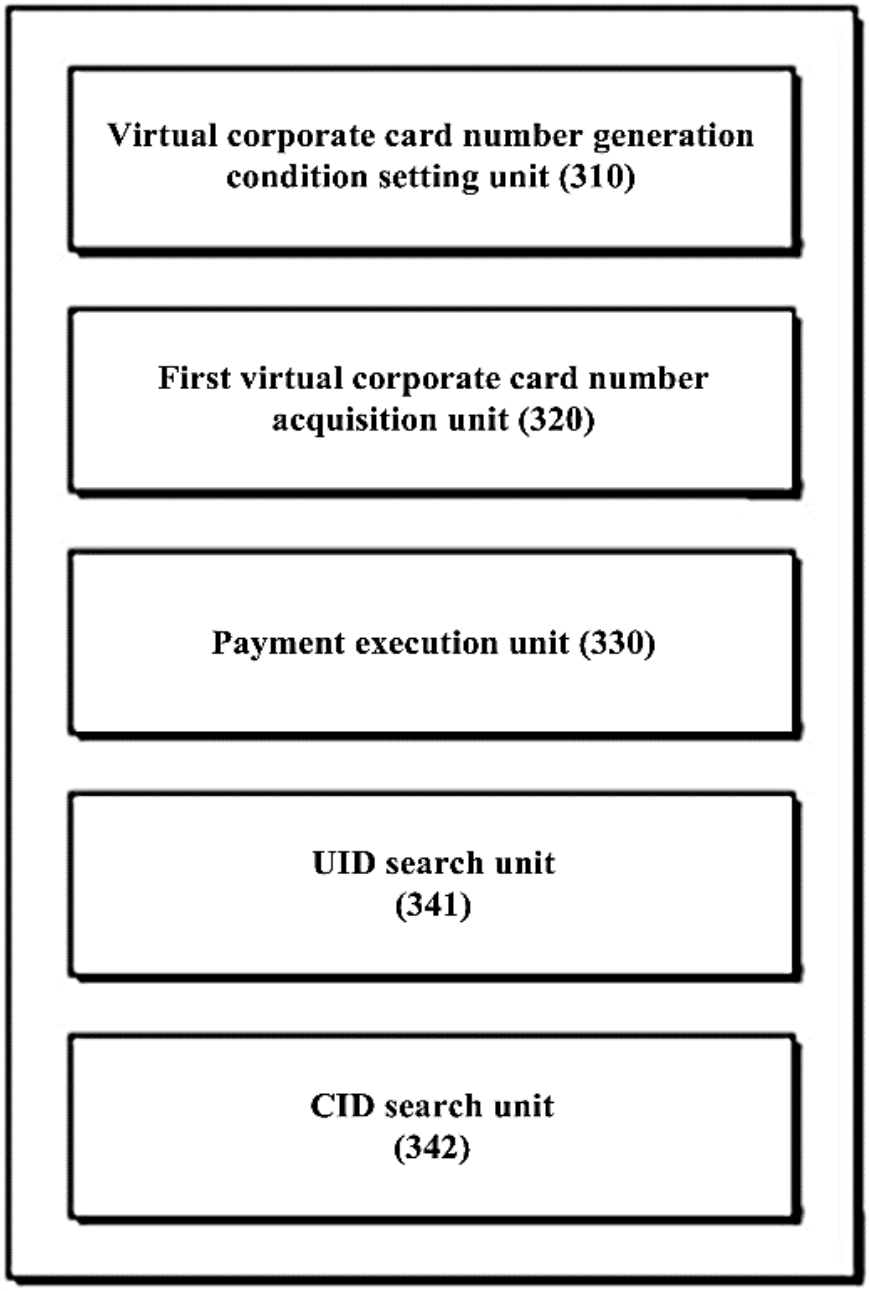

Virtual corporate card number generation condition setting unit (310)
First virtual corporate card number acquisition unit (320)
Payment execution unit (330)
UID search unit (341)
CID search unit (342)
300

Figure 4

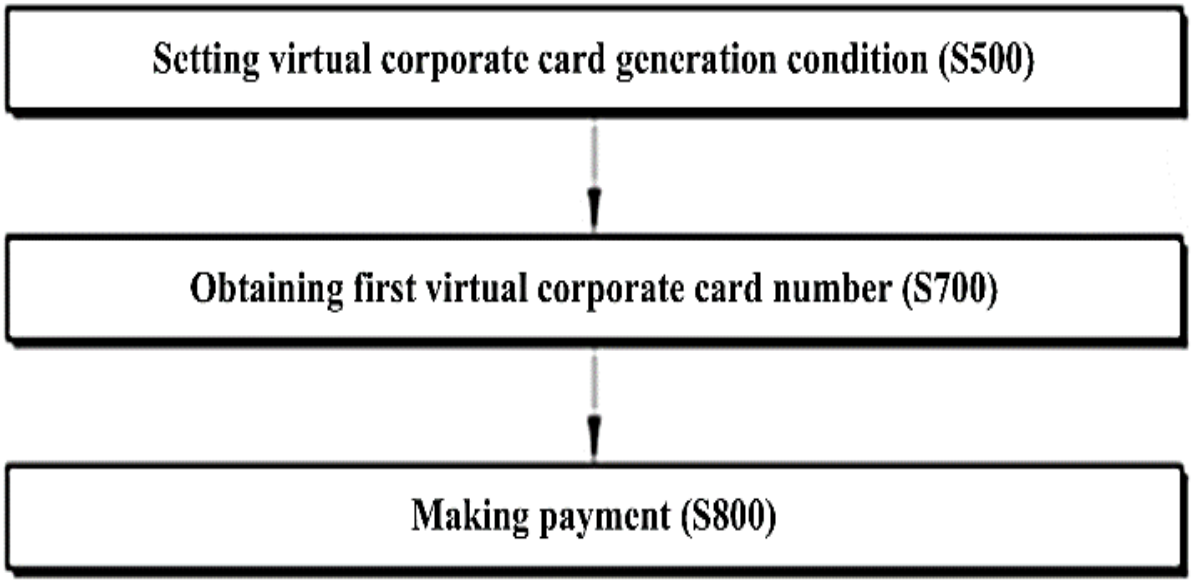

Setting virtual corporate card generation condition (S500)
Obtaining first virtual corporate card number (S700)
Making payment (S800)

Figure 5

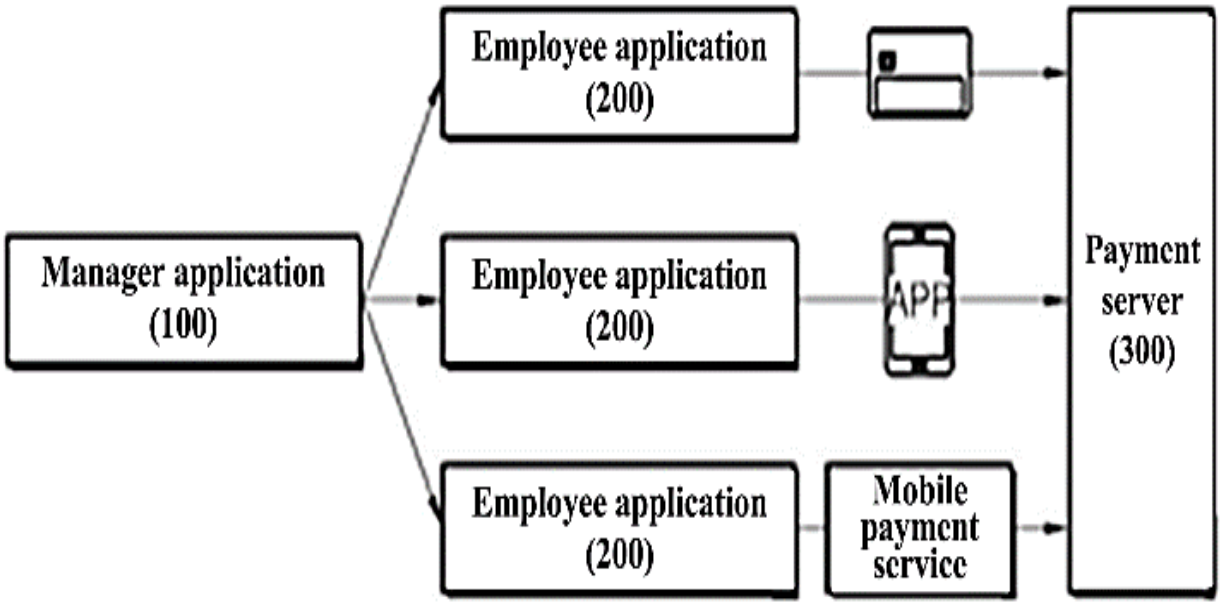

Manager application
(100)
Employee application
(200)
Employee application
(200)
Employee application
(200)
APP
Mobile
payment
service
Payment
server
(300)

Figure 6

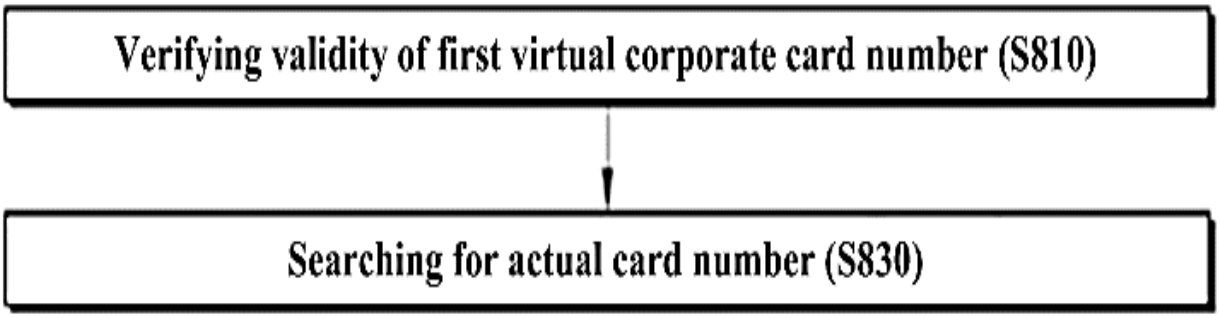

Verifying validity of first virtual corporate card number (S810)
Searching for actual card number (S830)

Figure 7

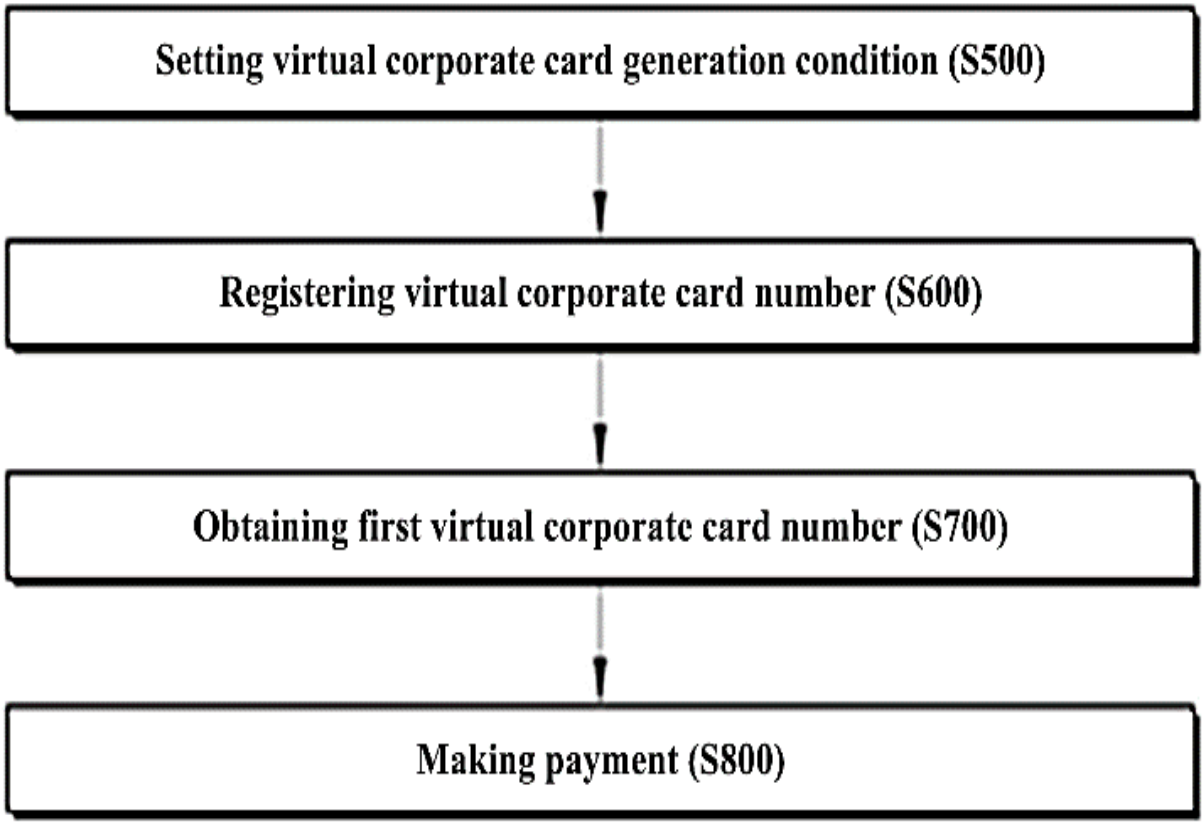

Setting virtual corporate card generation condition (S500)
Registering virtual corporate card number (S600)
Obtaining first virtual corporate card number (S700)
Making payment (S800)

Figure 8

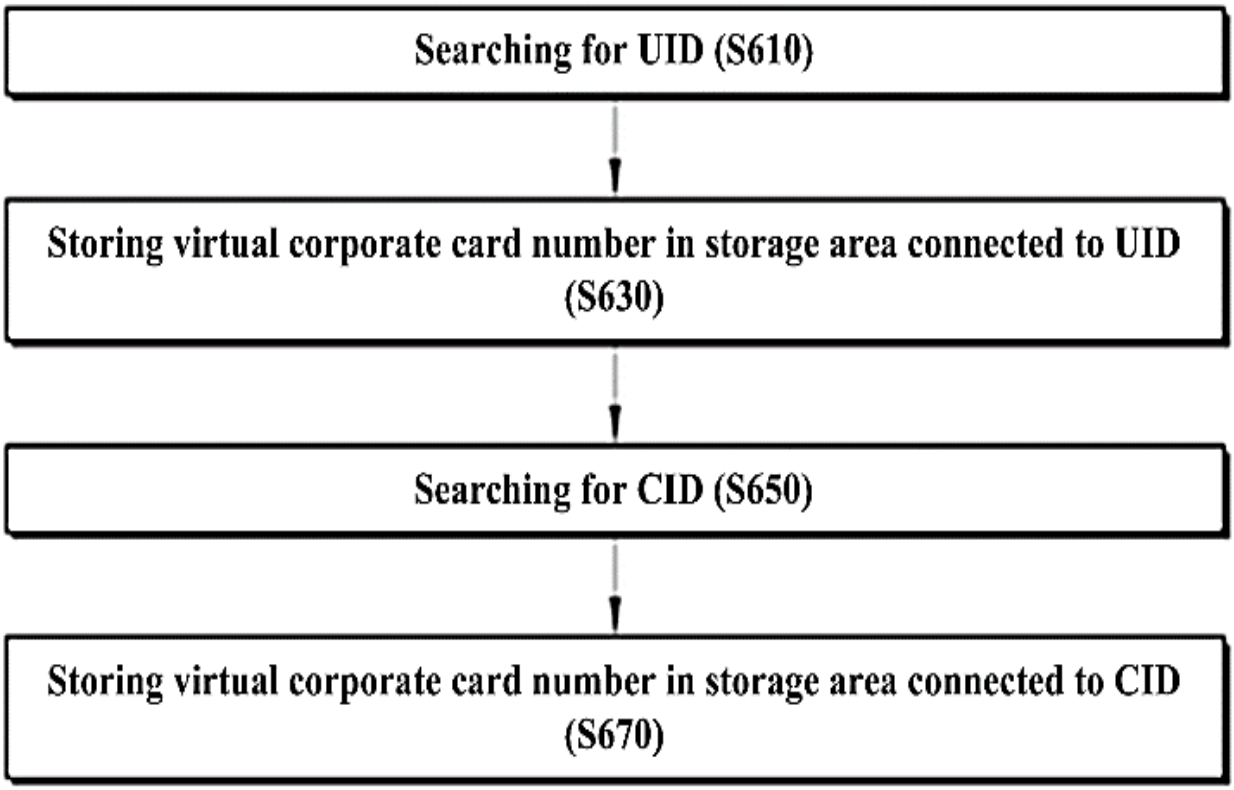

Searching for UID (S610)
Storing virtual corporate card number in storage area connected to UID (S630)
Searching for CID (S650)
Storing virtual corporate card number in storage area connected to CID (S670)

Figure 9

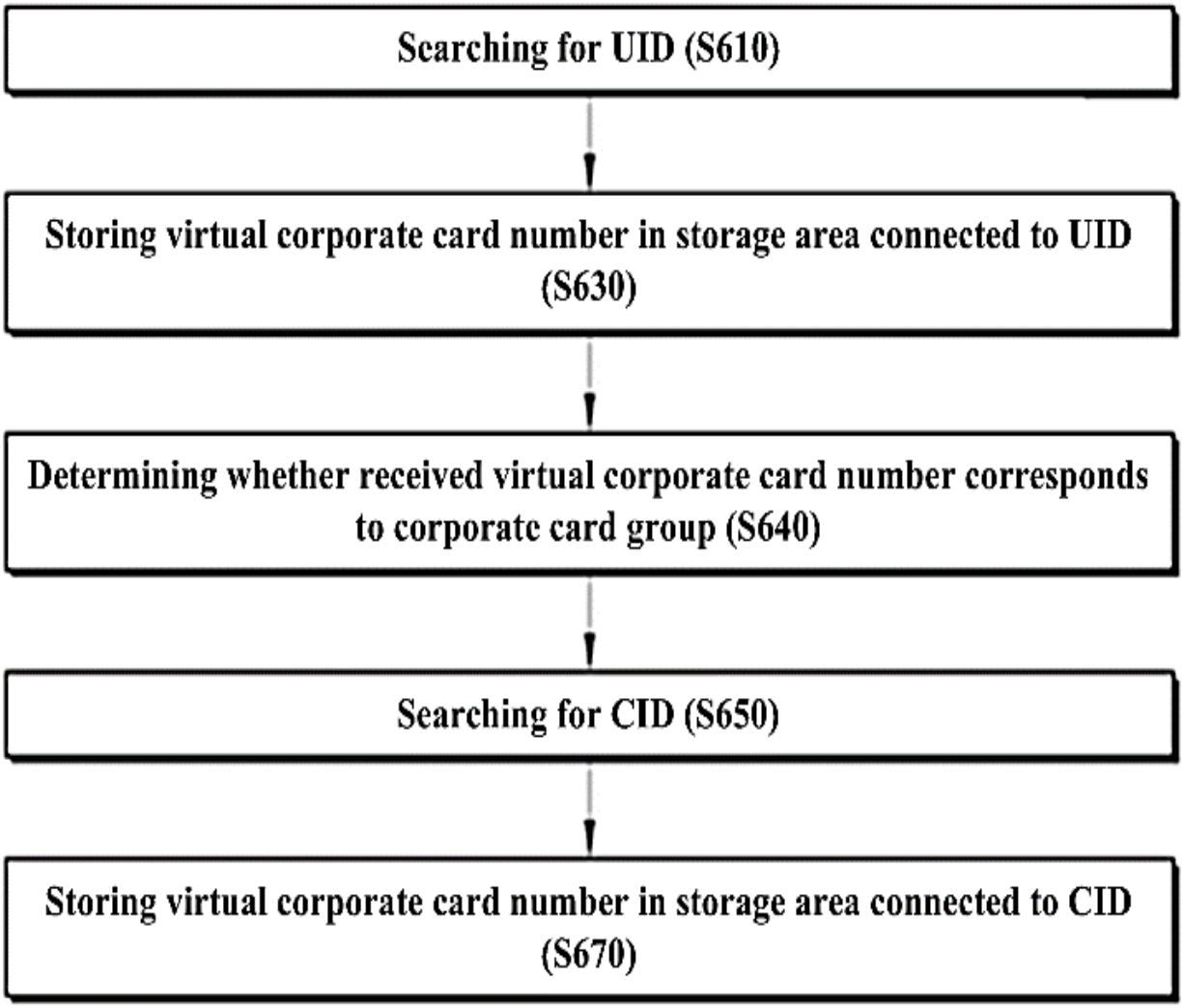

Searching for UID (S610)
Storing virtual corporate card number in storage area connected to UID (S630)
Determining whether received virtual corporate card number corresponds to corporate card group (S640)
Searching for CID (S650)
Storing virtual corporate card number in storage area connected to CID (S670)

Figure 10

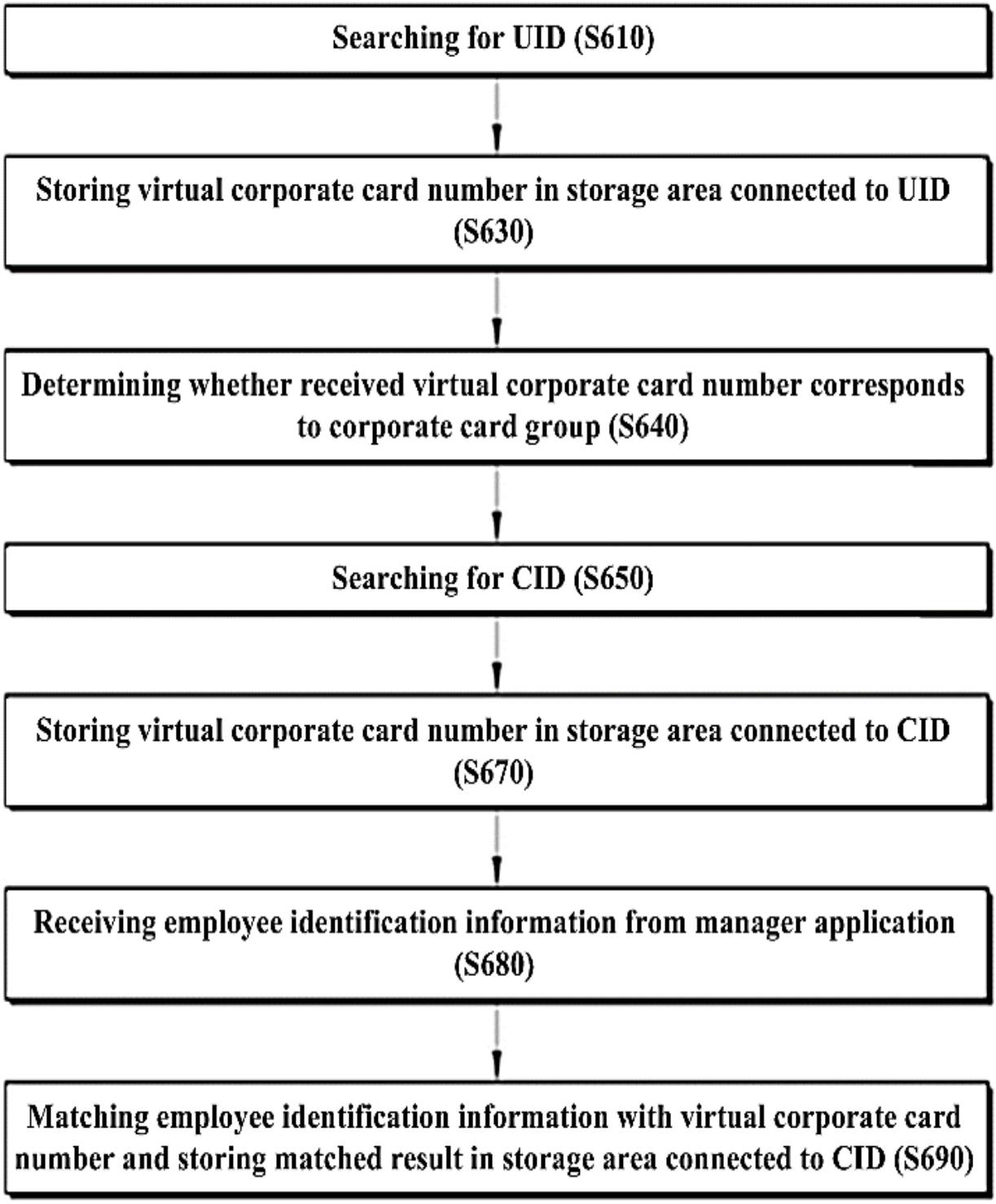
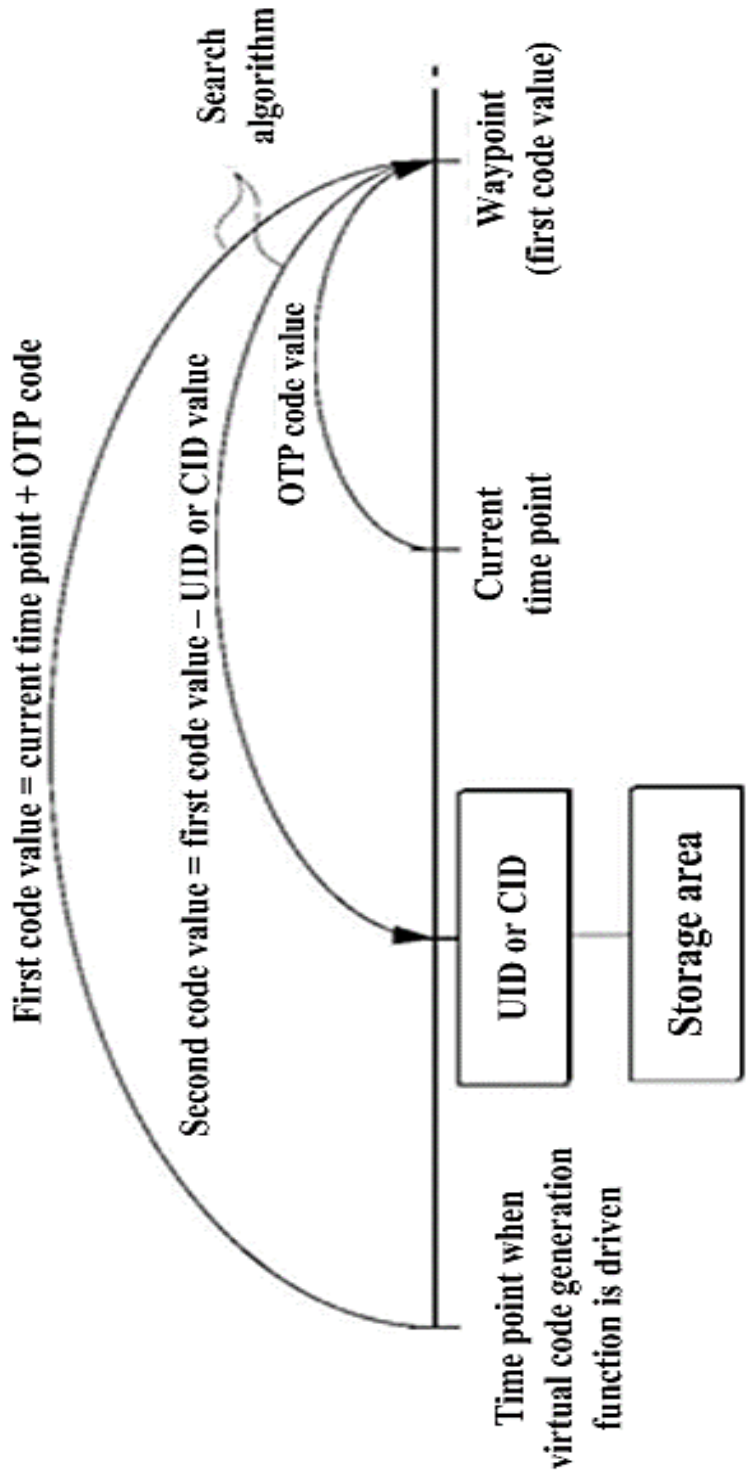

Searching for UID (S610)
Storing virtual corporate card number in storage area connected to UID (S630)
Determining whether received virtual corporate card number corresponds to corporate card group (S640)
Searching for CID (S650)
Storing virtual corporate card number in storage area connected to CID (S670)
Receiving employee identification information from manager application (S680)
Matching employee identification information with virtual corporate card number and storing matched result in storage area connected to CID (S690)

Figure 11


First code value = current time point + OTP code
Second code value = first code value – UID or CID value
OTP code value
Search algorithm
Waypoint (first code value)
Current time point
UID or CID
Storage area
Time point when virtual code generation function is driven