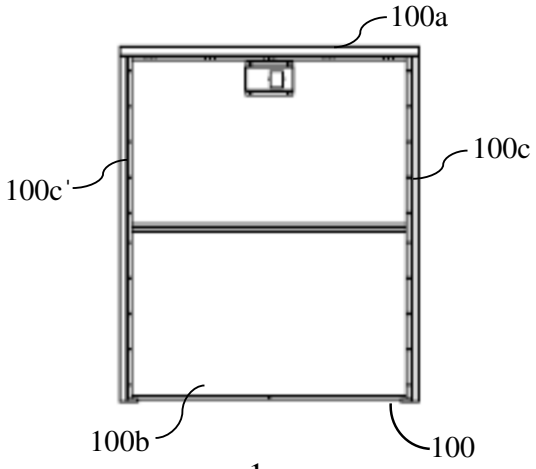
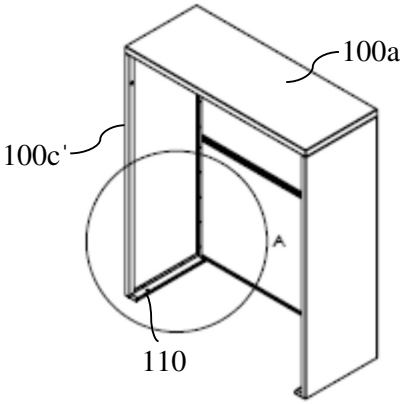
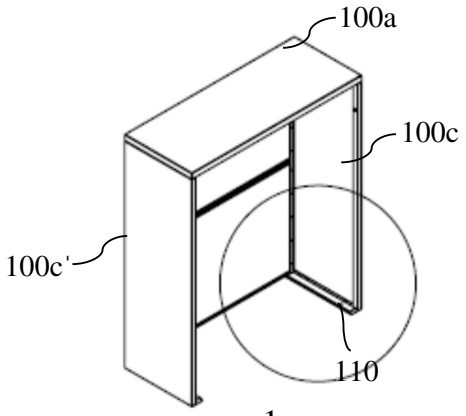


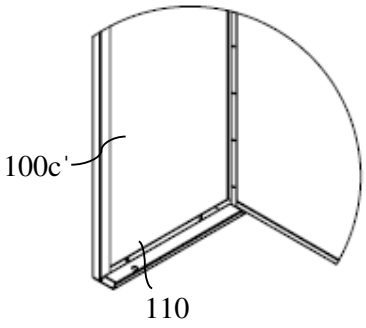
1a



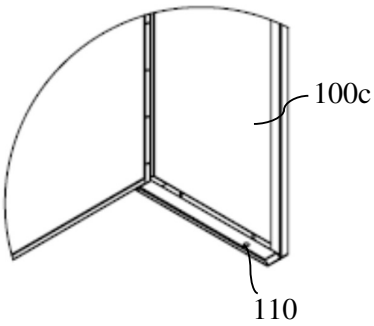
1b



1c

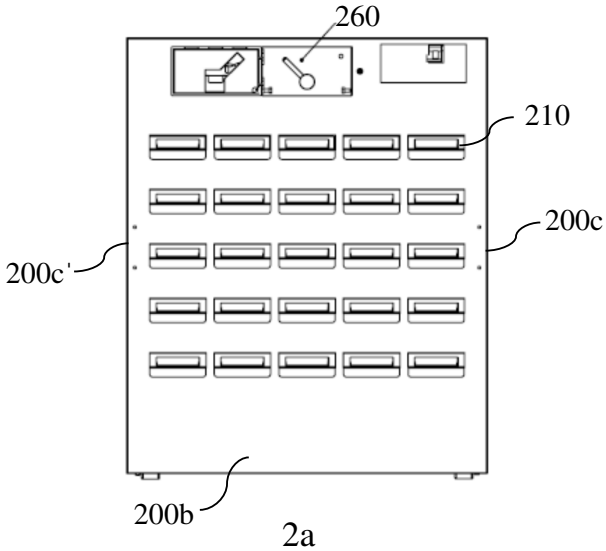


1d

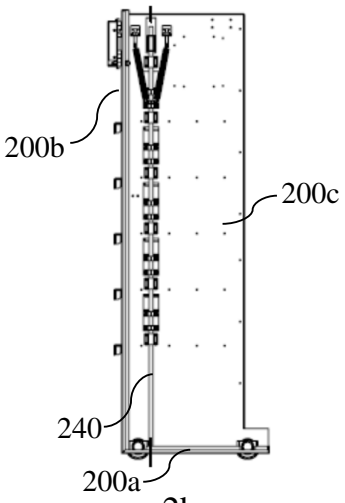


1e

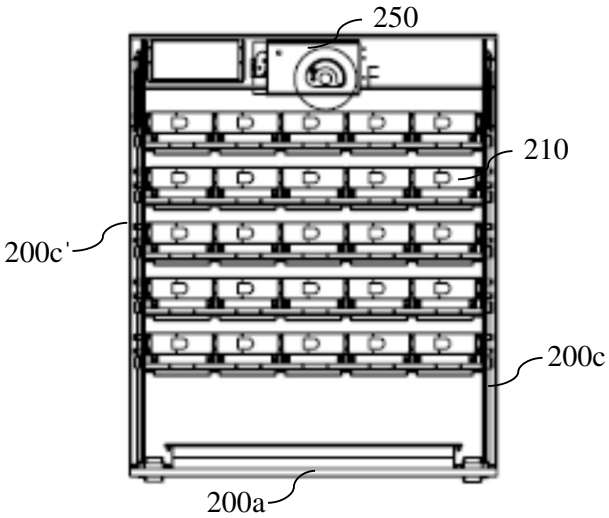
Fig. 1



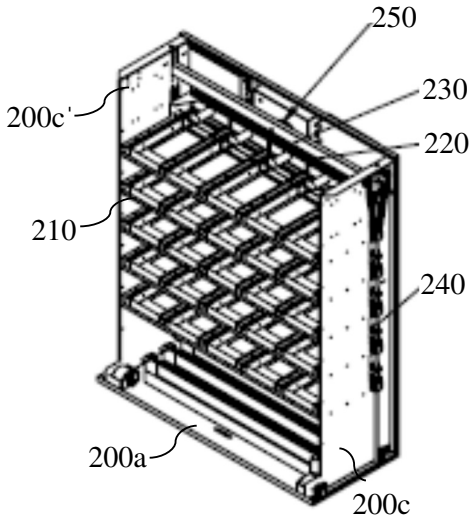
2a



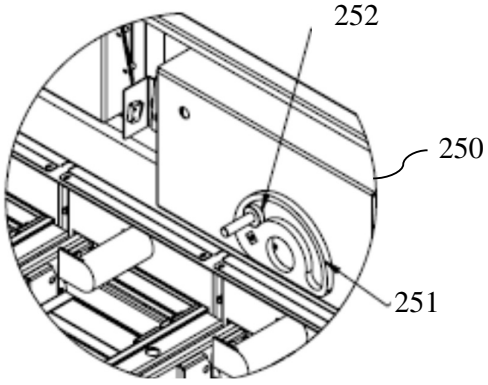
2b



2c

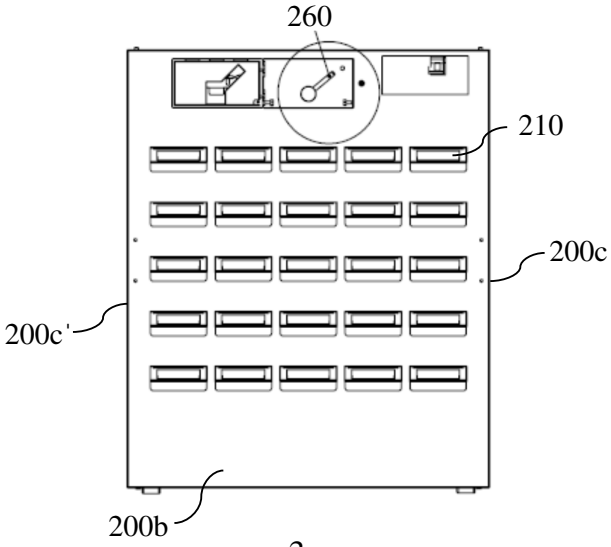


2d

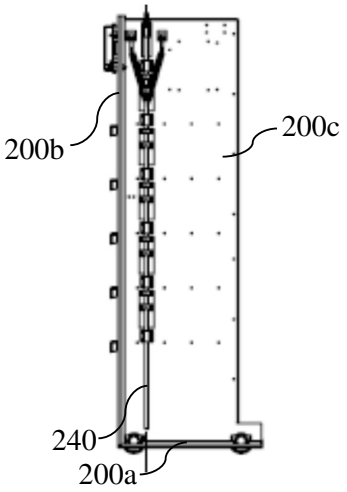


2e

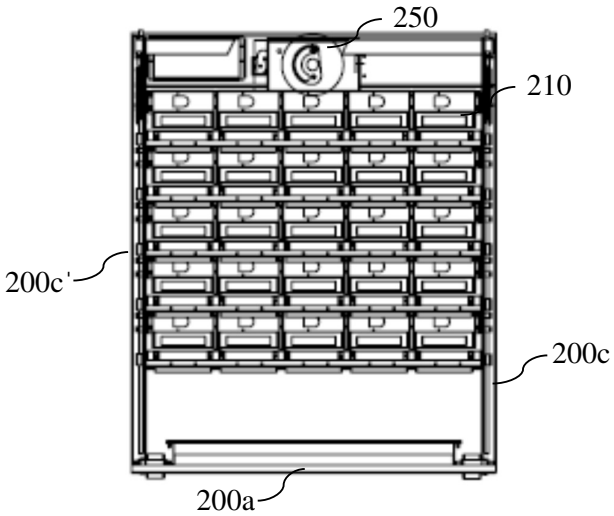
Fig. 2



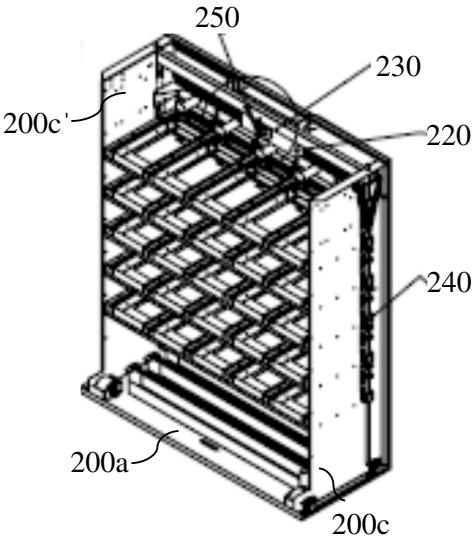
3a



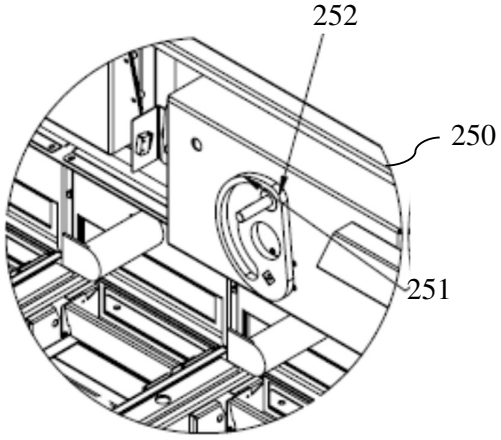
3b



3c

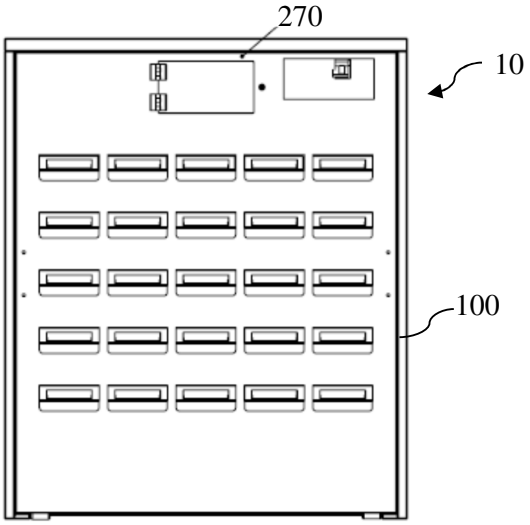


3d

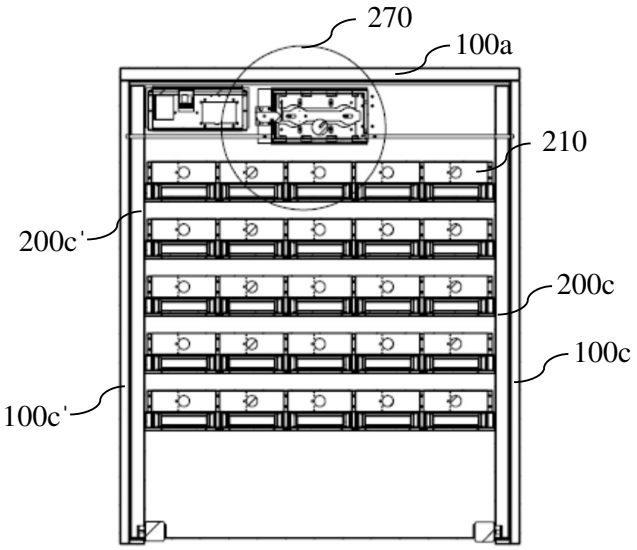


3e

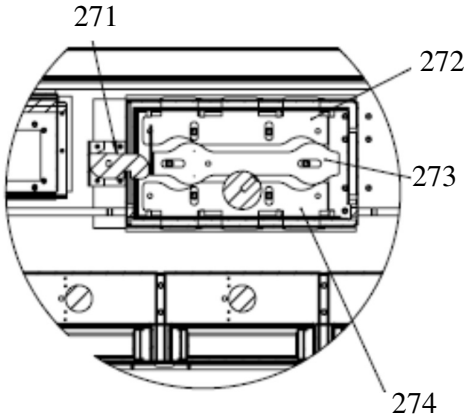
Fig. 3



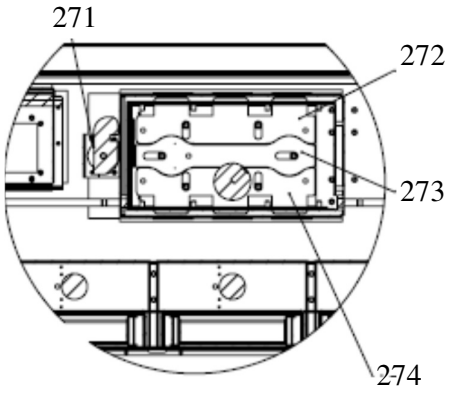
4a



4b



4c



4d

Fig. 4

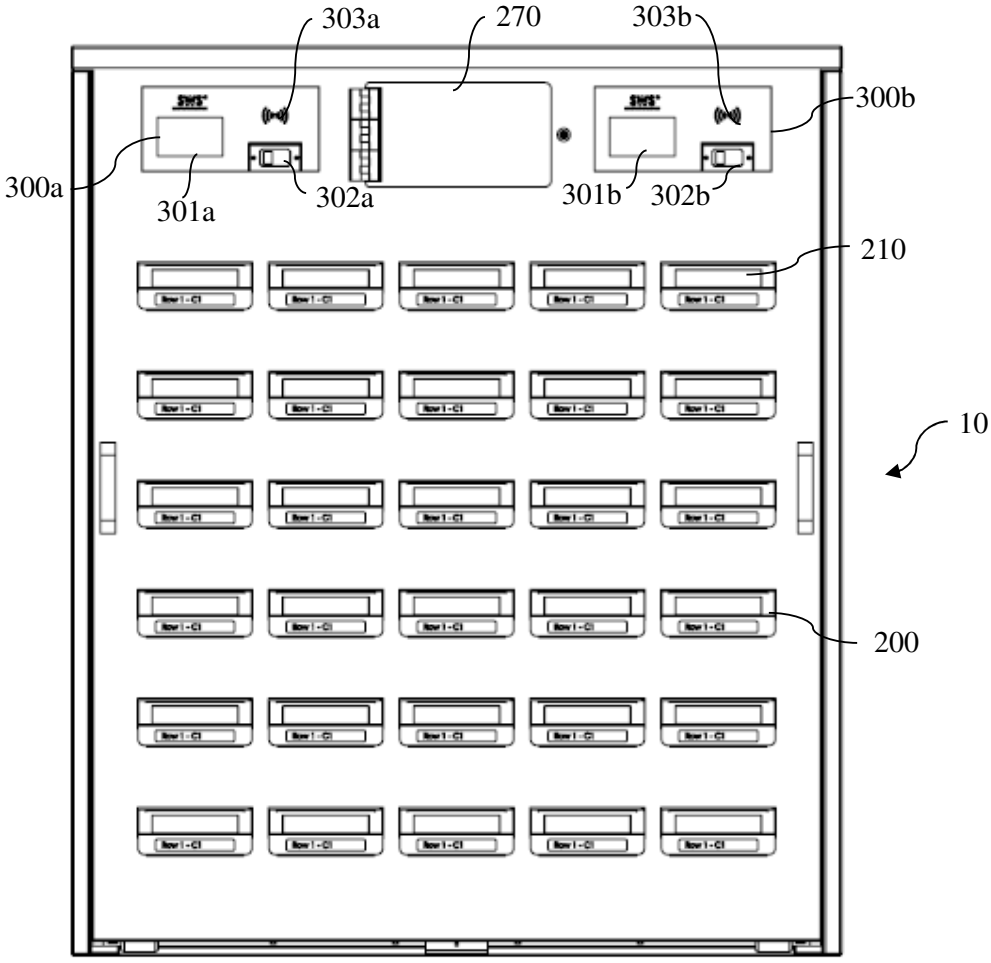


Fig. 5

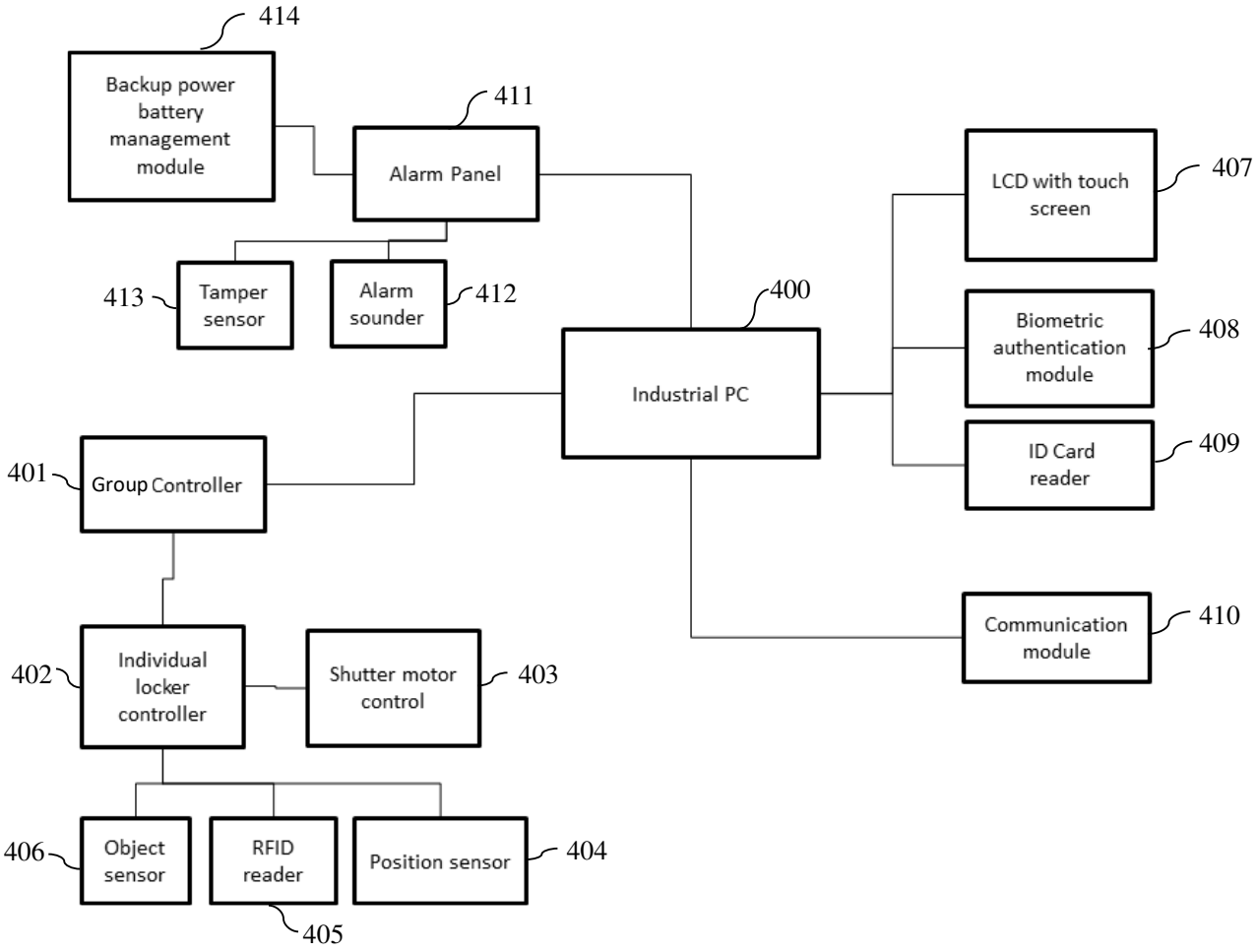

414
Backup power battery management module
411
Alarm Panel
LCD with touch screen
407
413
Tamper sensor
Alarm sounder
412
400
Biometric authentication module
408
Industrial PC
ID Card reader
409
401
Group Controller
Communication module
410
402
Individual locker controller
Shutter motor control
403
406
Object sensor
RFID reader
Position sensor
404
405

Fig. 6

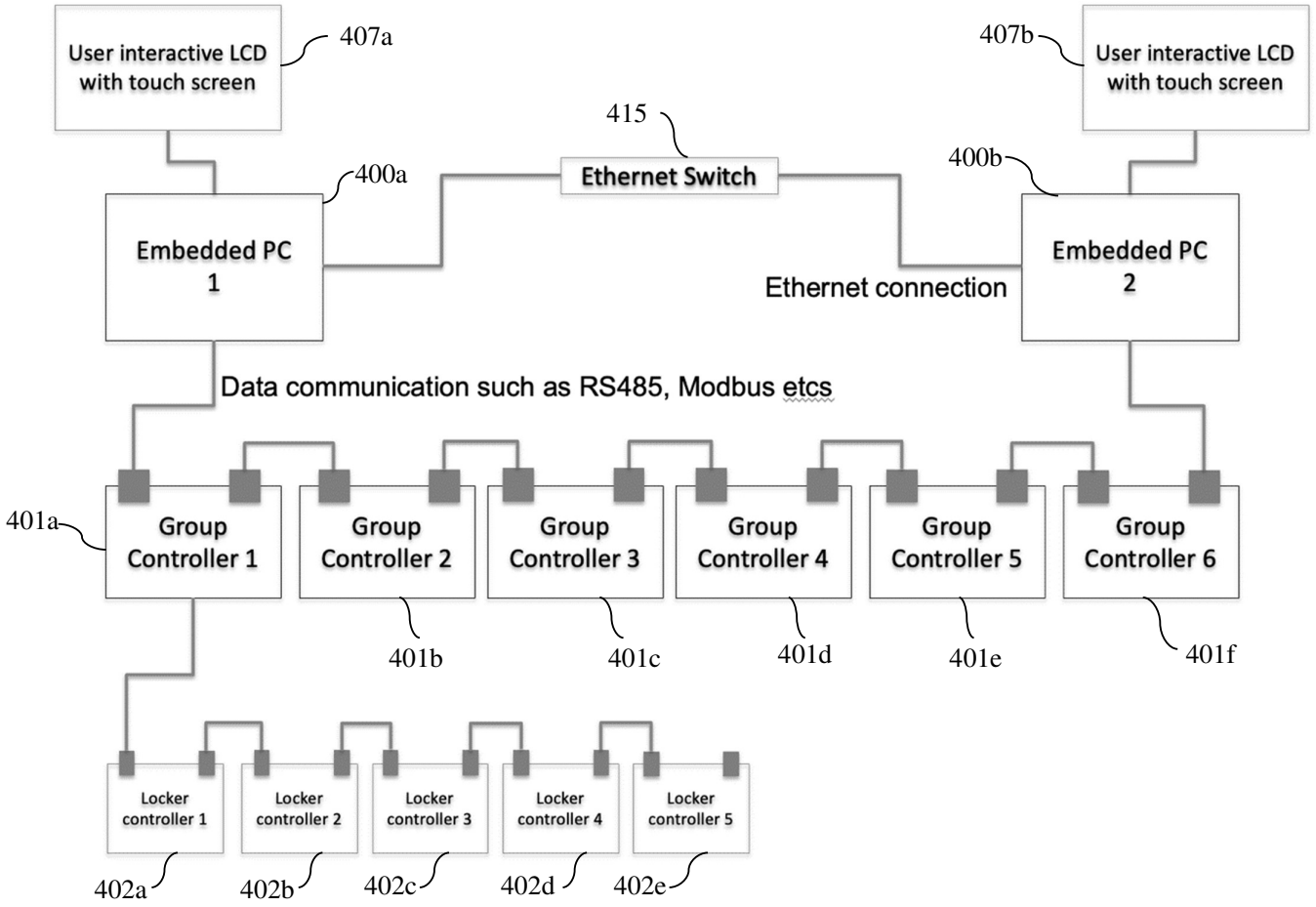

User interactive LCD with touch screen
407a
User interactive LCD with touch screen
407b
415
Ethernet Switch
400a
400b
Embedded PC 1
Embedded PC 2
Ethernet connection
Data communication such as RS485, Modbus etcs
401a
Group Controller 1
Group Controller 2
Group Controller 3
Group Controller 4
Group Controller 5
Group Controller 6
401b
401c
401d
401e
401f
Locker controller 1
Locker controller 2
Locker controller 3
Locker controller 4
Locker controller 5
402a
402b
402c
402d
402e

Fig. 7

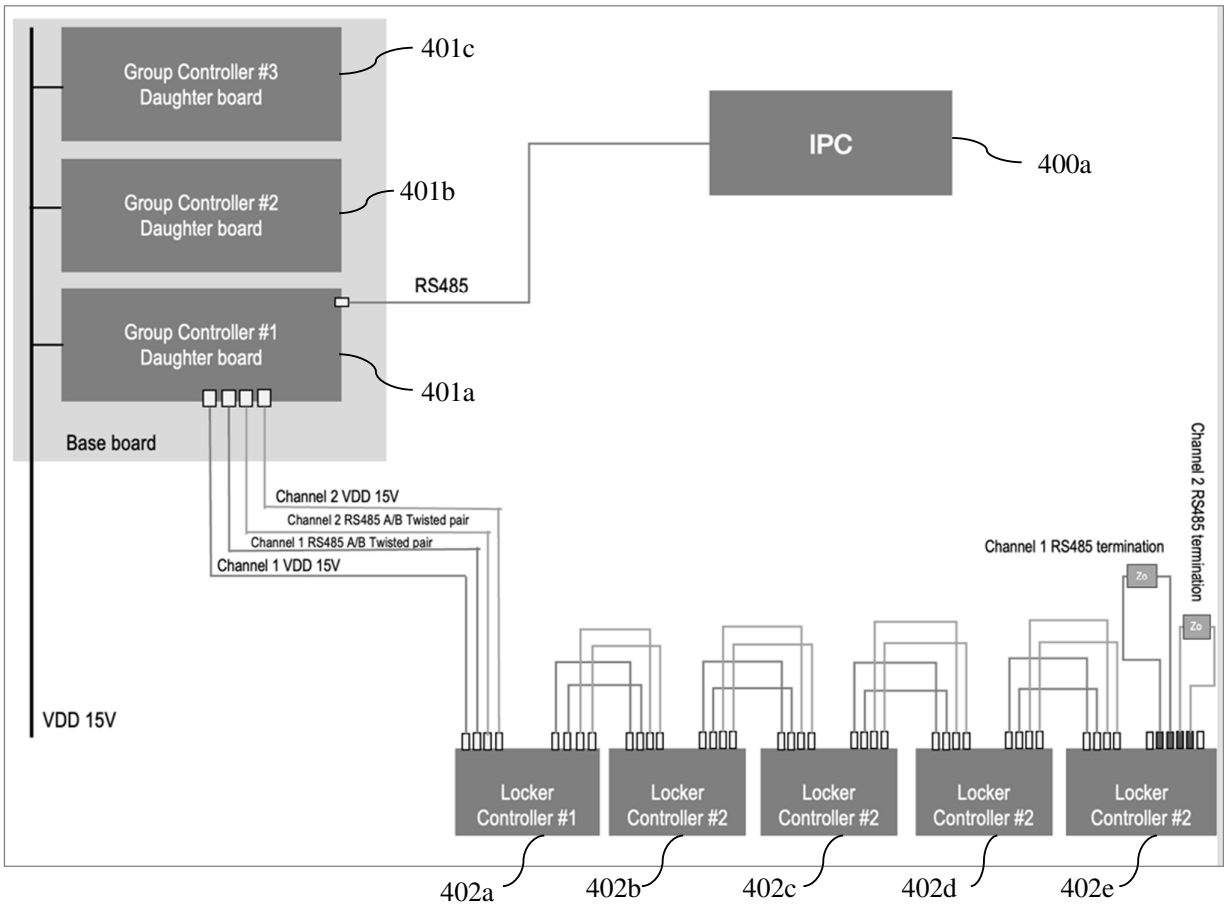

Group Controller #3
Daughter board
401c
Group Controller #2
Daughter board
401b
IPC
400a
RS485
Group Controller #1
Daughter board
401a
Base board
Channel 2 VDD 15V
Channel 2 RS485 A/B Twisted pair
Channel 1 RS485 A/B Twisted pair
Channel 1 VDD 15V
Channel 1 RS485 termination
Channel 2 RS485 termination
VDD 15V
Locker Controller #1
Locker Controller #2
Locker Controller #2
Locker Controller #2
Locker Controller #2
402a
402b
402c
402d
402e

Fig. 8

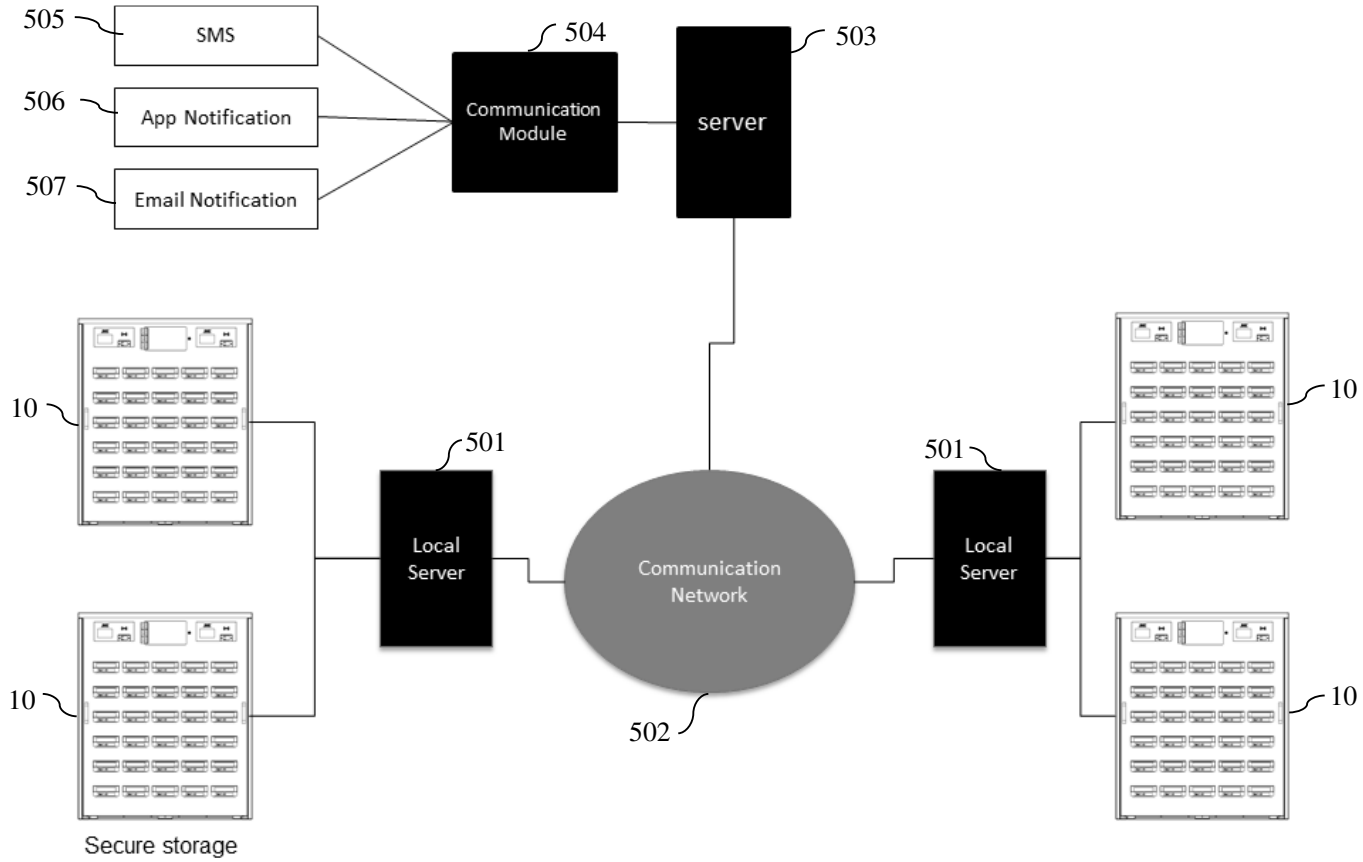

505
SMS
506
App Notification
507
Email Notification
504
Communication Module
503
server
10
501
Local Server
Communication Network
501
Local Server
10
10
10
502
Secure storage

Fig. 9