FIG. 1

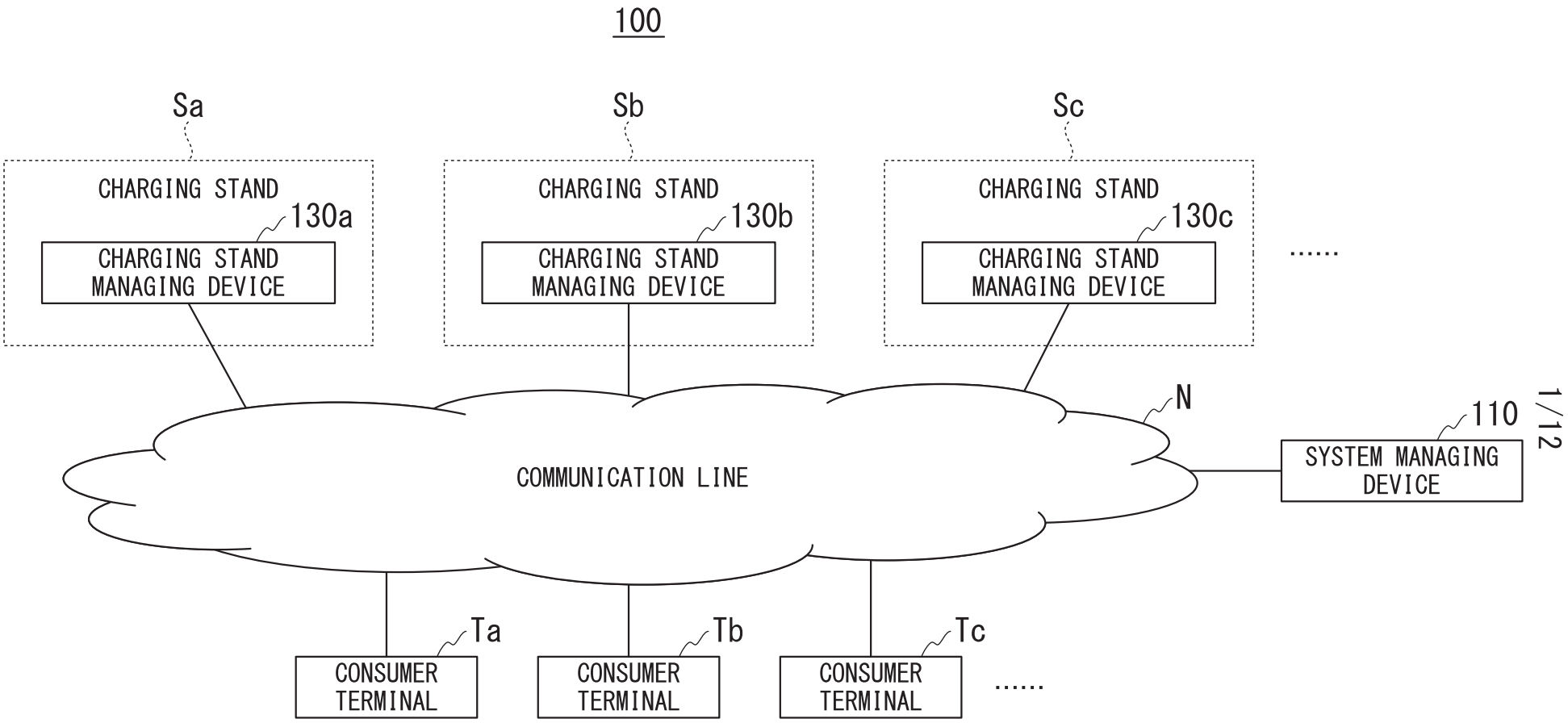

100
Sa
Sb
Sc
CHARGING STAND
130a
CHARGING STAND MANAGING DEVICE
CHARGING STAND
130b
CHARGING STAND MANAGING DEVICE
CHARGING STAND
130c
CHARGING STAND MANAGING DEVICE
.....
N
110
SYSTEM MANAGING DEVICE
COMMUNICATION LINE
Ta
Tb
Tc
CONSUMER TERMINAL
CONSUMER TERMINAL
CONSUMER TERMINAL
.....

FIG. 2

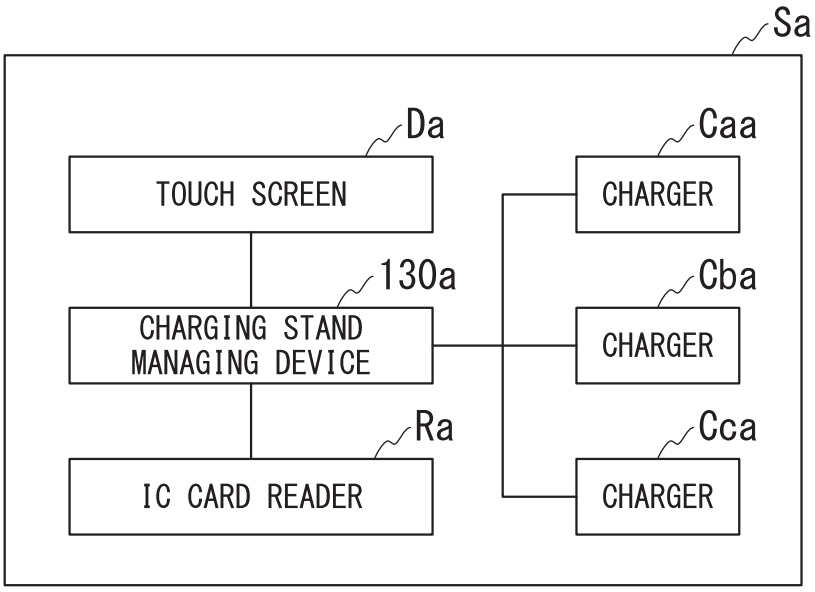

Sa
Da
TOUCH SCREEN
130a
CHARGING STAND MANAGING DEVICE
Ra
IC CARD READER
Caa
CHARGER
Cba
CHARGER
Cca
CHARGER

FIG. 3

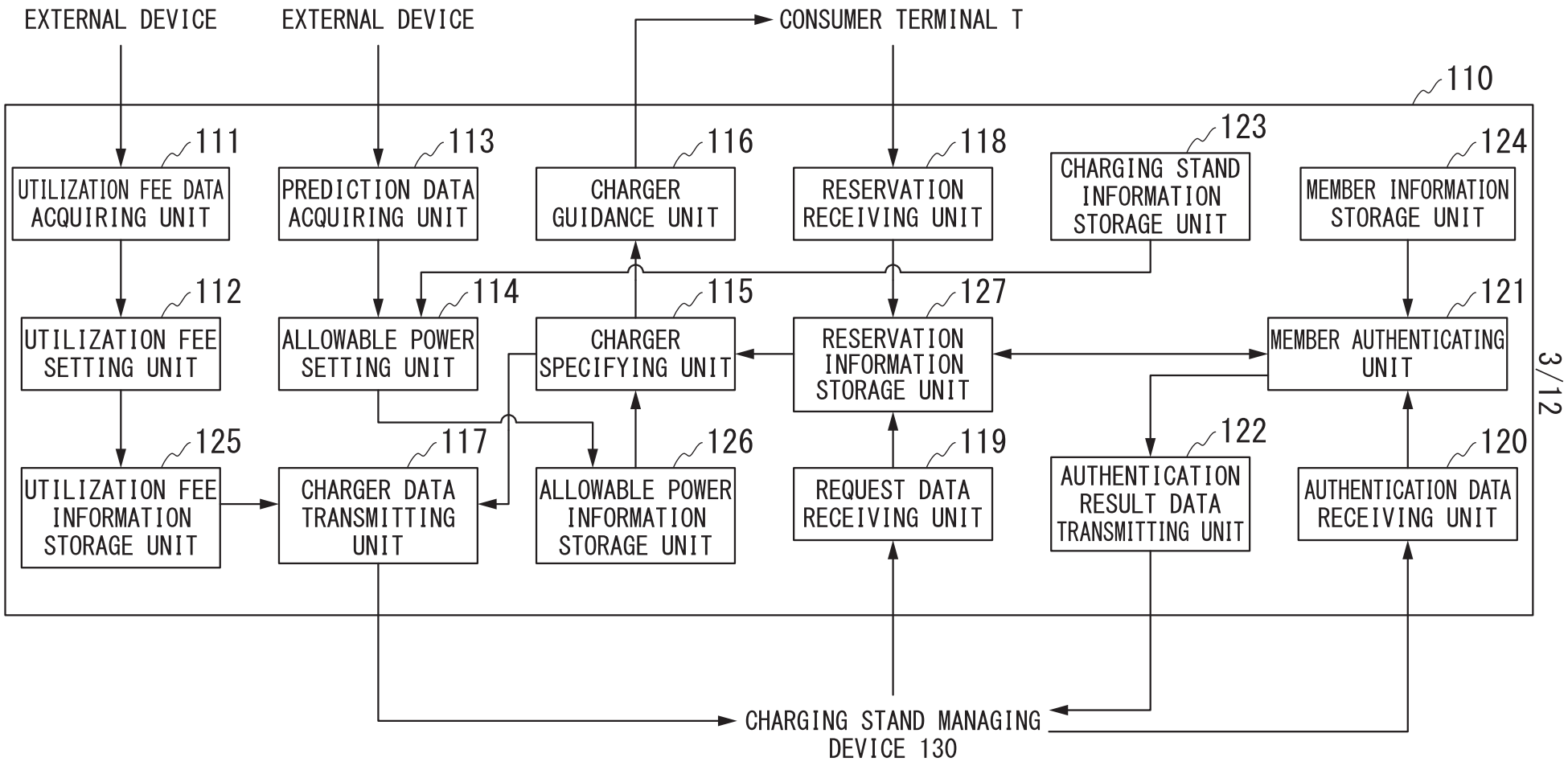

EXTERNAL DEVICE
EXTERNAL DEVICE
CONSUMER TERMINAL T
110
111
UTILIZATION FEE DATA ACQUIRING UNIT
113
PREDICTION DATA ACQUIRING UNIT
116
CHARGER GUIDANCE UNIT
118
RESERVATION RECEIVING UNIT
123
CHARGING STAND INFORMATION STORAGE UNIT
124
MEMBER INFORMATION STORAGE UNIT
112
UTILIZATION FEE SETTING UNIT
114
ALLOWABLE POWER SETTING UNIT
115
CHARGER SPECIFYING UNIT
127
RESERVATION INFORMATION STORAGE UNIT
121
MEMBER AUTHENTICATING UNIT
125
UTILIZATION FEE INFORMATION STORAGE UNIT
117
CHARGER DATA TRANSMITTING UNIT
126
ALLOWABLE POWER INFORMATION STORAGE UNIT
119
REQUEST DATA RECEIVING UNIT
122
AUTHENTICATION RESULT DATA TRANSMITTING UNIT
120
AUTHENTICATION DATA RECEIVING UNIT
CHARGING STAND MANAGING DEVICE 130
3/12

FIG. 4

123

REGION	CHARGING STAND
MINATO-KU, TOKYO	CHARGING STAND Sa
MINATO-KU, TOKYO	CHARGING STAND Sb
SHIBUYA-KU, TOKYO	CHARGING STAND Sc
⋮	⋮

FIG. 5

124

MEMBER ID	NAME	ADDRESS	PHONE NUMBER	MAIL ADDRESS
M0001	WAKABA AYUKAWA	MINATO-KU, TOKYO…	xx-xxxx-xxxx	wayukawa@xxx.com
M0002	SOTA YAMADA	MINATO-KU, TOKYO…	xxx-xxxx-xxxx	syamada@xxx.com
M0003	KYOICHI SHINDOU	CHUO-KU, TOKYO…	xxx-xxxx-xxxx	kshindou@xxx.com
⋮	⋮	⋮	⋮	⋮

FIG. 6

125

TIME ZONE	CHARGING STAND	OUTPUT POWER (kW)	UTILIZATION FEE (YEN/kWh)
0:00～1:00	CHARGING STAND Sa	20	30
0:00～1:00	CHARGING STAND Sa	30	45
0:00～1:00	CHARGING STAND Sa	50	75
⋮	⋮	⋮	⋮

FIG. 7

126

TIME ZONE	CHARGING STAND	ALLOWABLE POWER (kW)
0:00～1:00	CHARGING STAND Sa	200
0:00～1:00	CHARGING STAND Sb	200
0:00～1:00	CHARGING STAND Sc	190
⋮	⋮	⋮

FIG. 8

127

MEMBER ID	CHARGING STAND	CHARGER	OUTPUT POWER (kW)	TIME ZONE
M0001	CHARGING STAND Sa	CHARGER Caa	50	4:15～4:30
M0415	CHARGING STAND Sa	CHARGER Cca	30	4:15～4:45
M0928	CHARGING STAND Sa	CHARGER Cba	50	4:30～4:45
⋮	⋮	⋮	⋮	⋮

FIG. 9

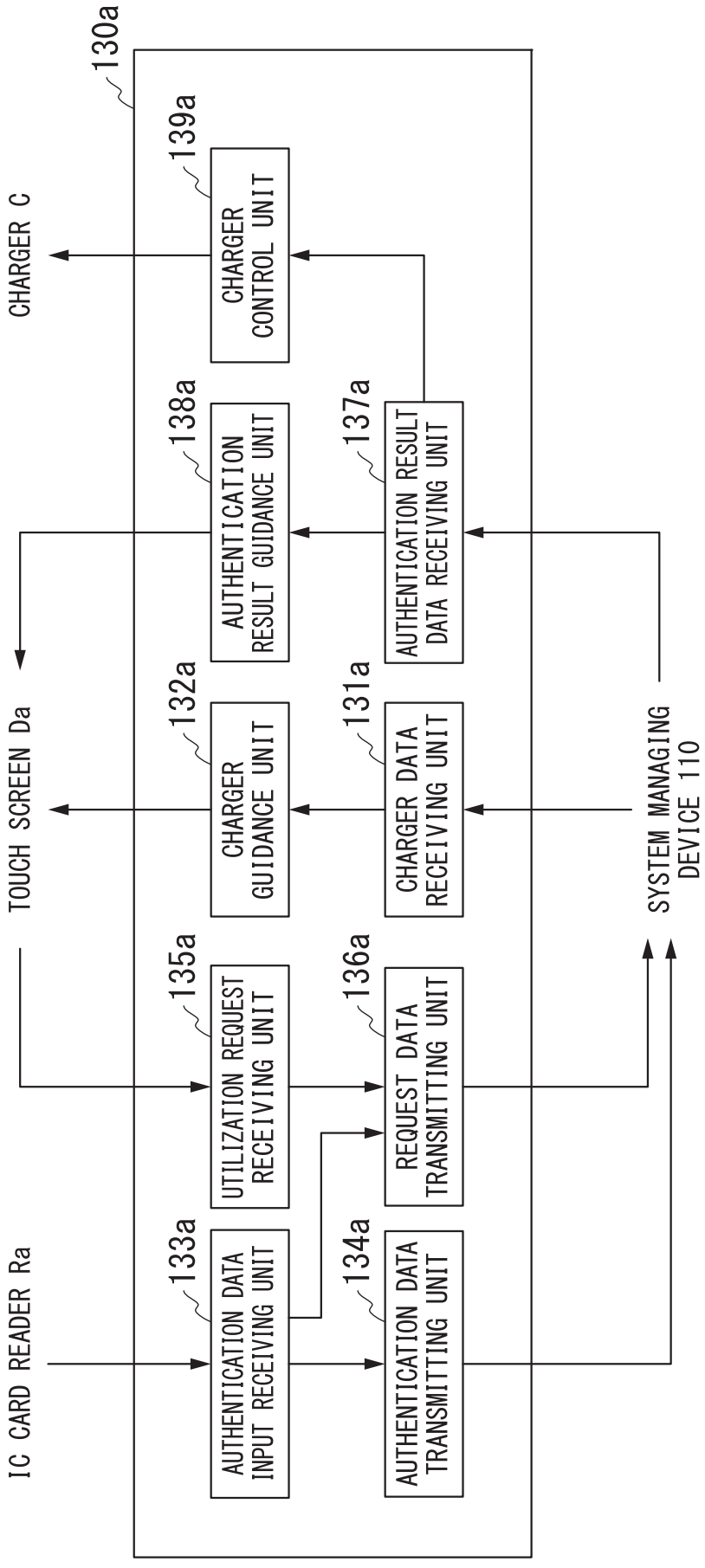

130a
CHARGER C
139a
CHARGER CONTROL UNIT
138a
AUTHENTICATION RESULT GUIDANCE UNIT
137a
AUTHENTICATION RESULT DATA RECEIVING UNIT
TOUCH SCREEN Da
132a
CHARGER GUIDANCE UNIT
131a
CHARGER DATA RECEIVING UNIT
SYSTEM MANAGING DEVICE 110
135a
UTILIZATION REQUEST RECEIVING UNIT
136a
REQUEST DATA TRANSMITTING UNIT
IC CARD READER Ra
133a
AUTHENTICATION DATA INPUT RECEIVING UNIT
134a
AUTHENTICATION DATA TRANSMITTING UNIT

FIG. 10

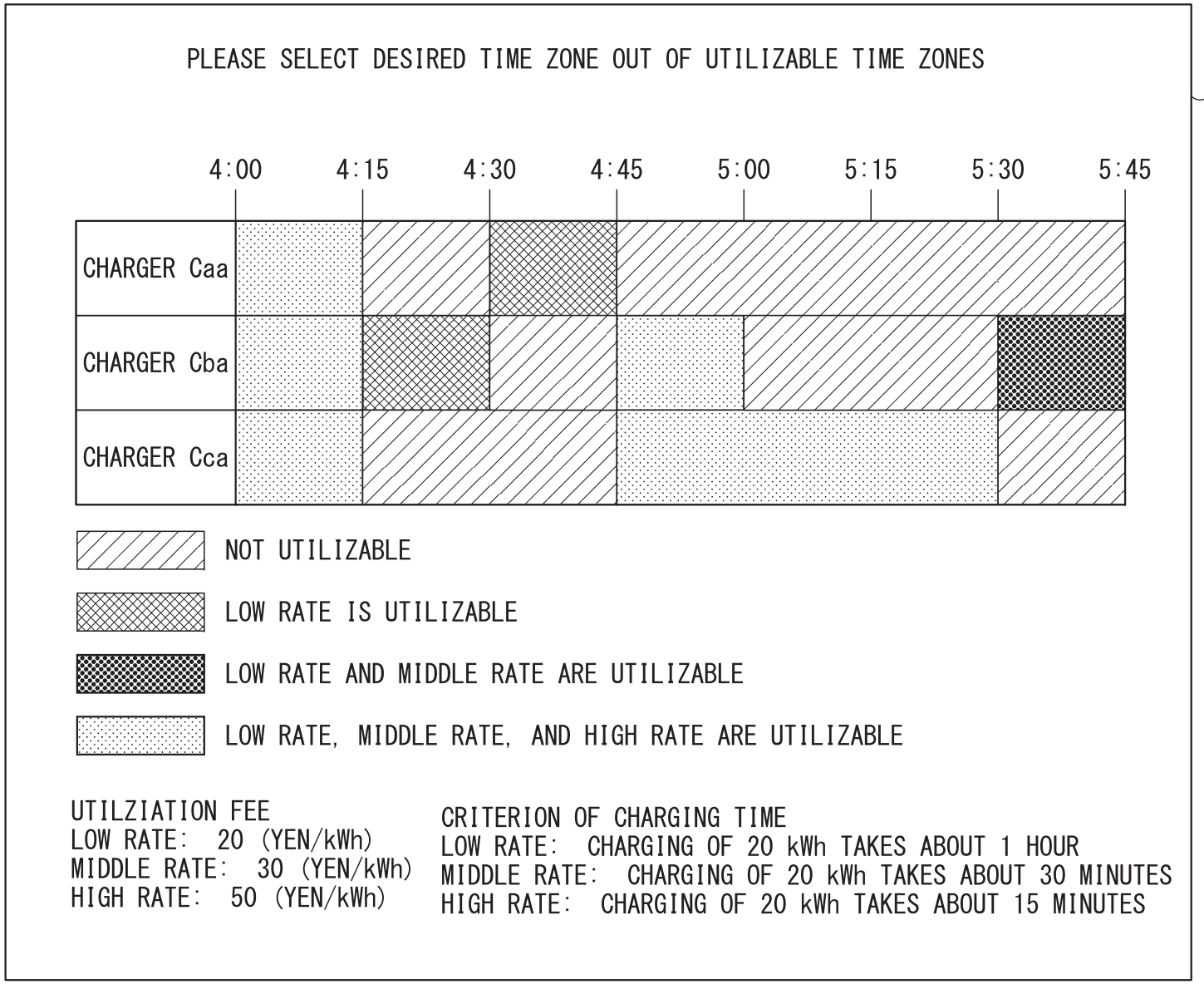

PLEASE SELECT DESIRED TIME ZONE OUT OF UTILIZABLE TIME ZONES
200
4:00
4:15
4:30
4:45
5:00
5:15
5:30
5:45
CHARGER Caa
CHARGER Cba
CHARGER Cca
NOT UTILIZABLE
LOW RATE IS UTILIZABLE
LOW RATE AND MIDDLE RATE ARE UTILIZABLE
LOW RATE, MIDDLE RATE, AND HIGH RATE ARE UTILIZABLE
UTILZIATION FEE
LOW RATE: 20 (YEN/kWh)
MIDDLE RATE: 30 (YEN/kWh)
HIGH RATE: 50 (YEN/kWh)
CRITERION OF CHARGING TIME
LOW RATE: CHARGING OF 20 kWh TAKES ABOUT 1 HOUR
MIDDLE RATE: CHARGING OF 20 kWh TAKES ABOUT 30 MINUTES
HIGH RATE: CHARGING OF 20 kWh TAKES ABOUT 15 MINUTES

FIG. 11

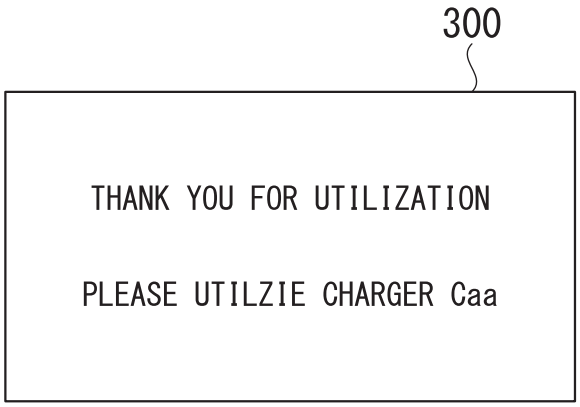

300
THANK YOU FOR UTILIZATION
PLEASE UTILZIE CHARGER Caa

FIG. 12

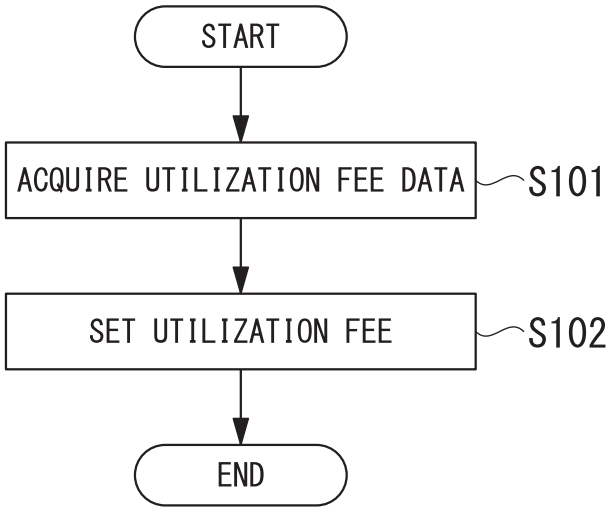

START
ACQUIRE UTILIZATION FEE DATA
S101
SET UTILIZATION FEE
S102
END

FIG. 13

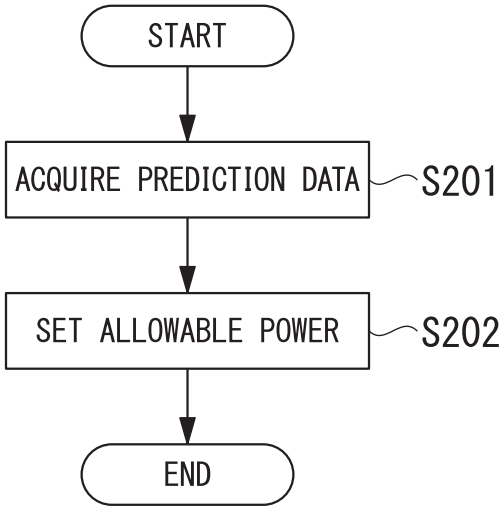

START
ACQUIRE PREDICTION DATA
S201
SET ALLOWABLE POWER
S202
END

FIG. 14

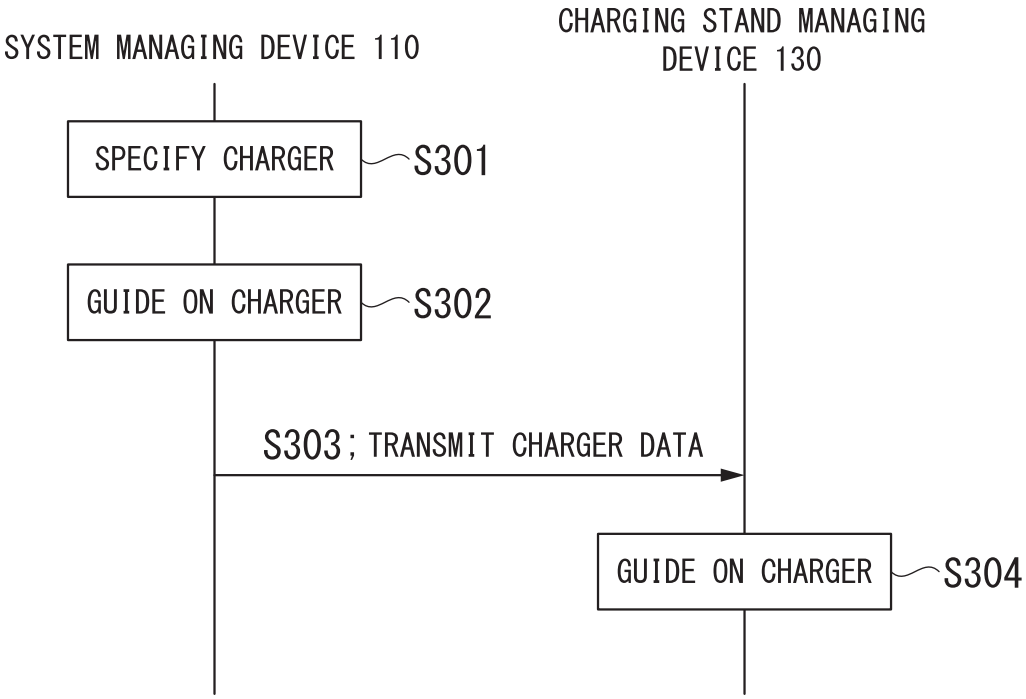

SYSTEM MANAGING DEVICE 110
CHARGING STAND MANAGING DEVICE 130
SPECIFY CHARGER
S301
GUIDE ON CHARGER
S302
S303; TRANSMIT CHARGER DATA
GUIDE ON CHARGER
S304

FIG. 15

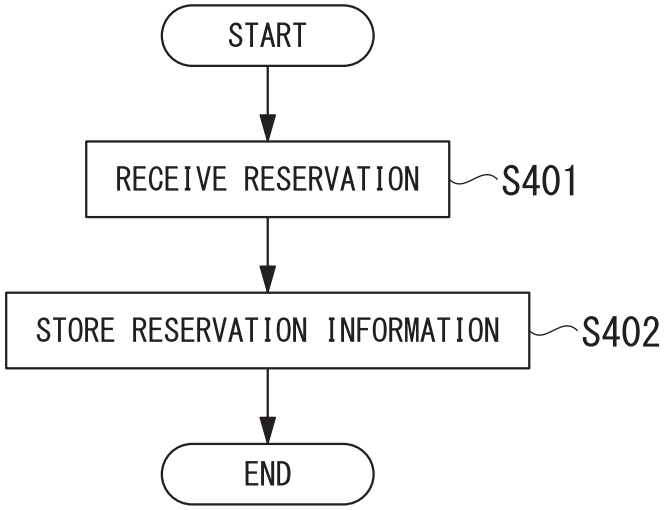

START
RECEIVE RESERVATION
S401
STORE RESERVATION INFORMATION
S402
END

FIG. 16

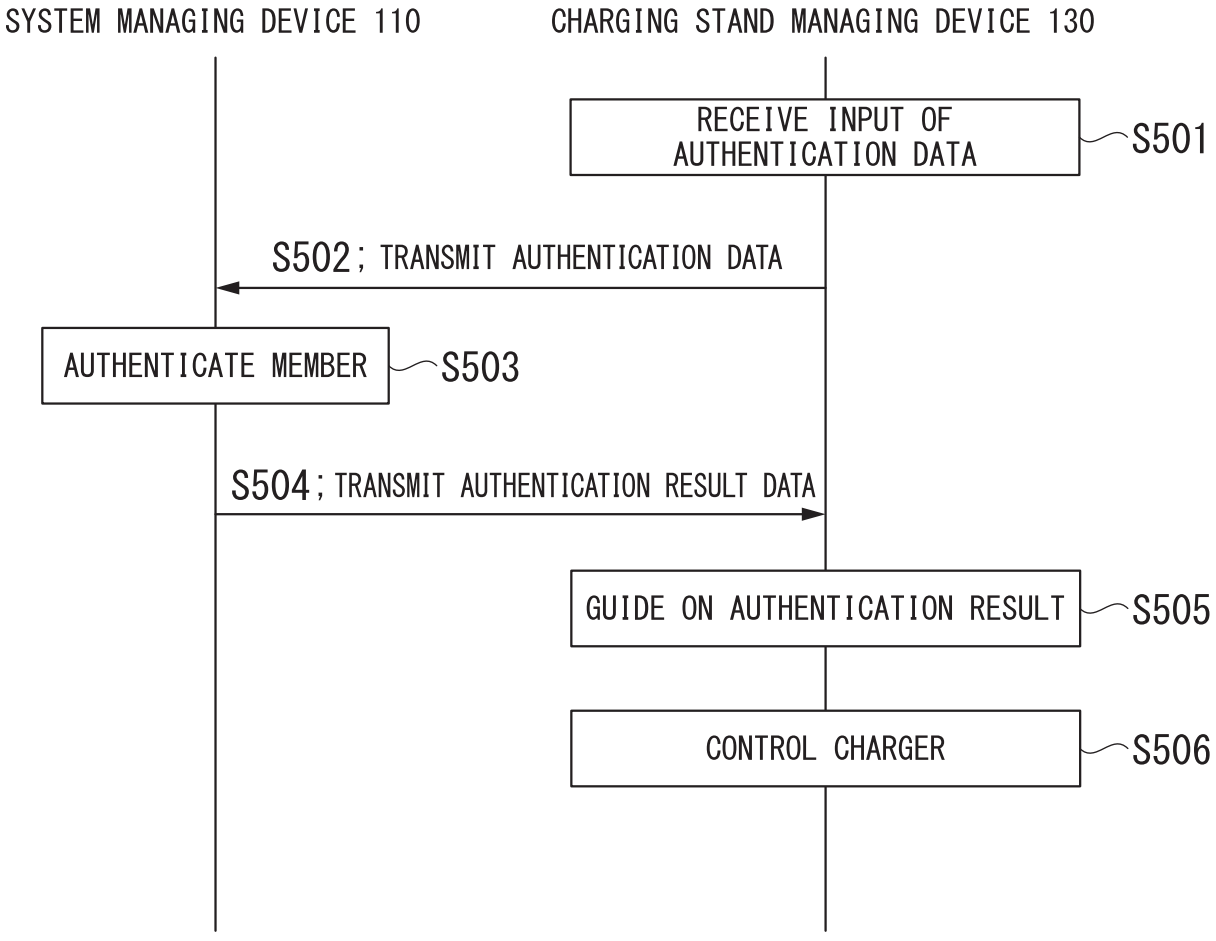

SYSTEM MANAGING DEVICE 110
CHARGING STAND MANAGING DEVICE 130
RECEIVE INPUT OF AUTHENTICATION DATA
S501
S502; TRANSMIT AUTHENTICATION DATA
AUTHENTICATE MEMBER
S503
S504; TRANSMIT AUTHENTICATION RESULT DATA
GUIDE ON AUTHENTICATION RESULT
S505
CONTROL CHARGER
S506

FIG. 17

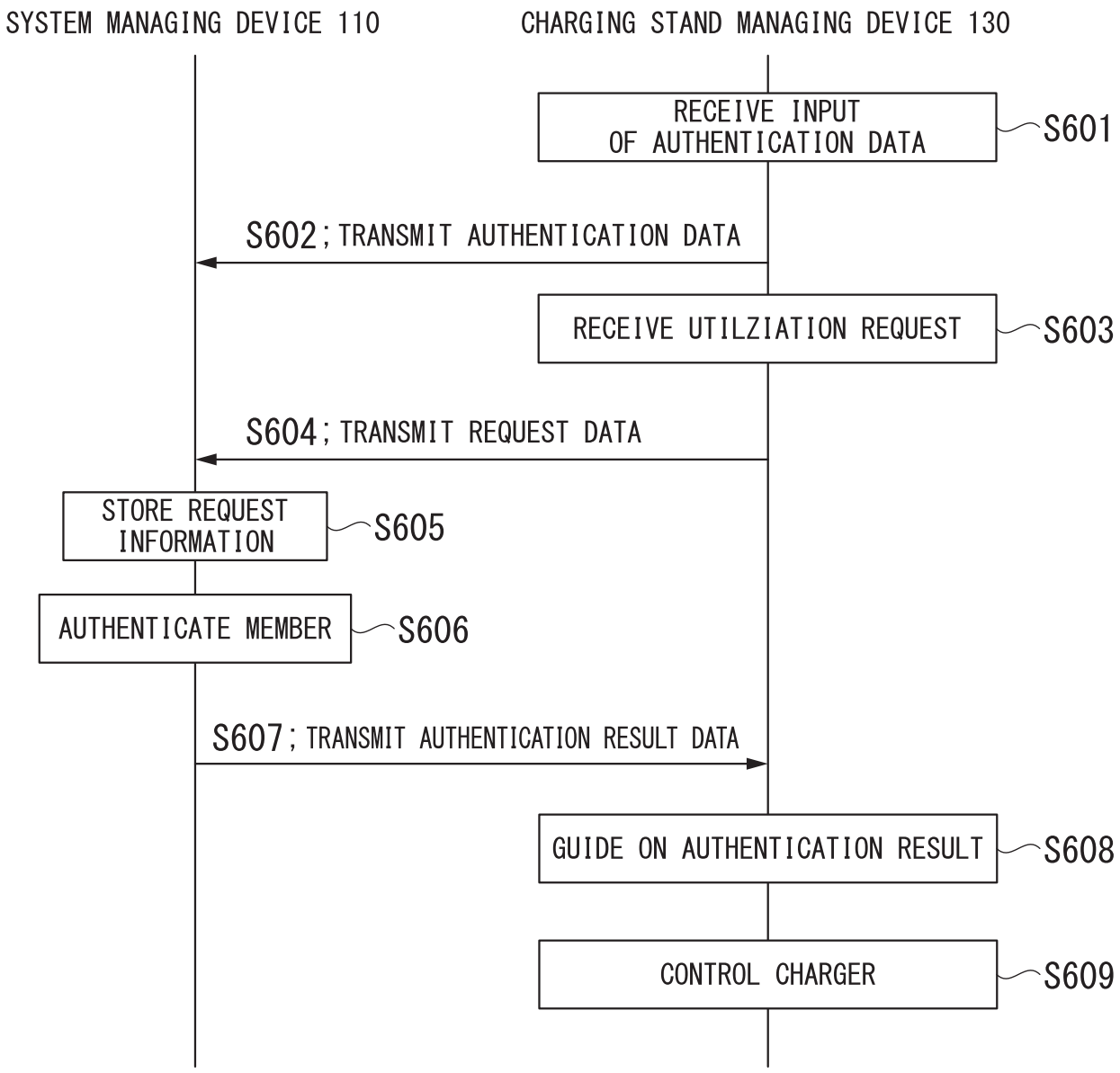
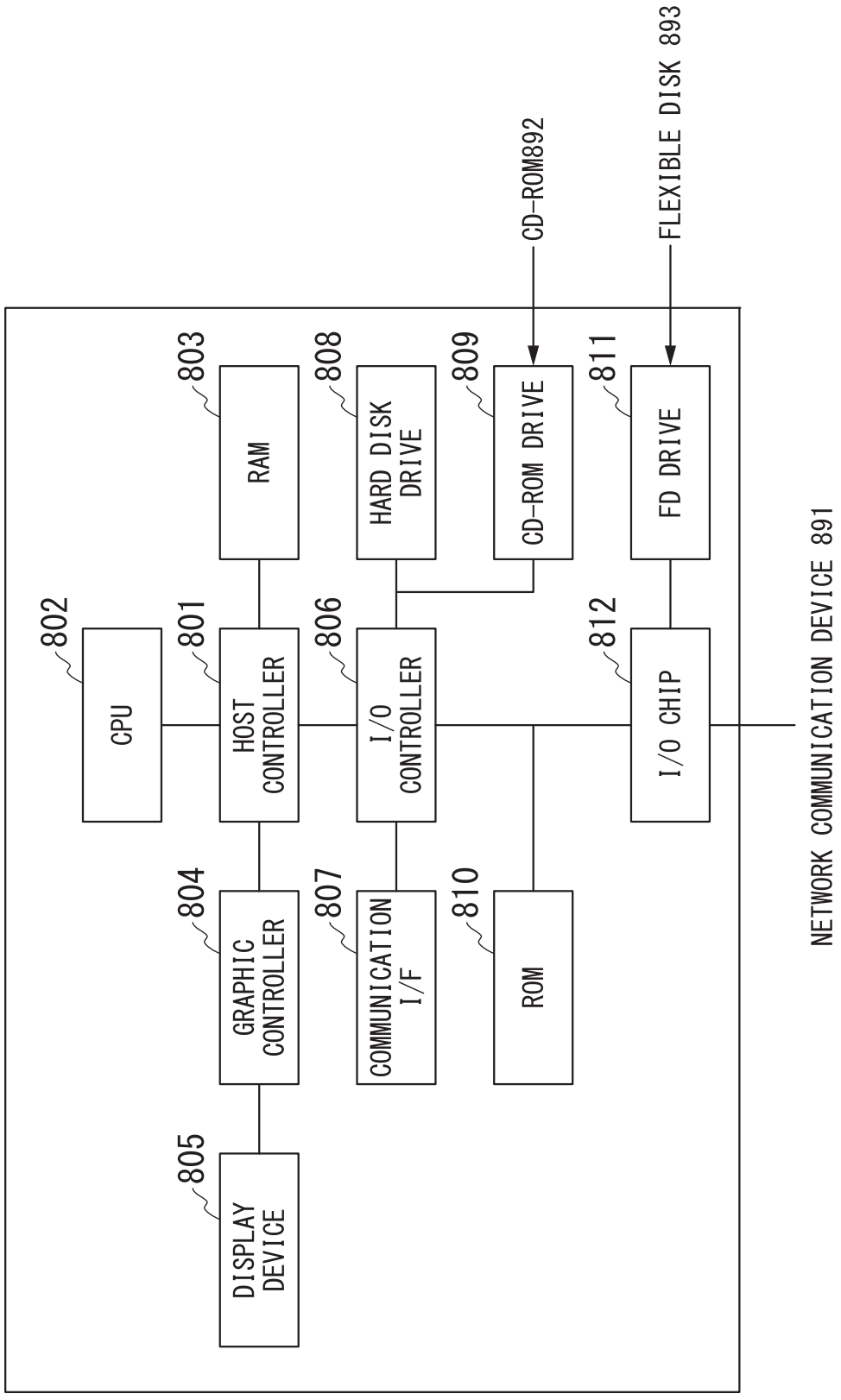

SYSTEM MANAGING DEVICE 110
CHARGING STAND MANAGING DEVICE 130
RECEIVE INPUT OF AUTHENTICATION DATA
S601
S602; TRANSMIT AUTHENTICATION DATA
RECEIVE UTILZIATION REQUEST
S603
S604; TRANSMIT REQUEST DATA
STORE REQUEST INFORMATION
S605
AUTHENTICATE MEMBER
S606
S607; TRANSMIT AUTHENTICATION RESULT DATA
GUIDE ON AUTHENTICATION RESULT
S608
CONTROL CHARGER
S609

FIG. 18


CPU
802
HOST CONTROLLER
801
RAM
803
I/O CONTROLLER
806
HARD DISK DRIVE
808
CD-ROM DRIVE
809
FD DRIVE
811
I/O CHIP
812
GRAPHIC CONTROLLER
804
COMMUNICATION I/F
807
ROM
810
DISPLAY DEVICE
805
CD-ROM892
FLEXIBLE DISK 893
NETWORK COMMUNICATION DEVICE 891