

FIG. 1

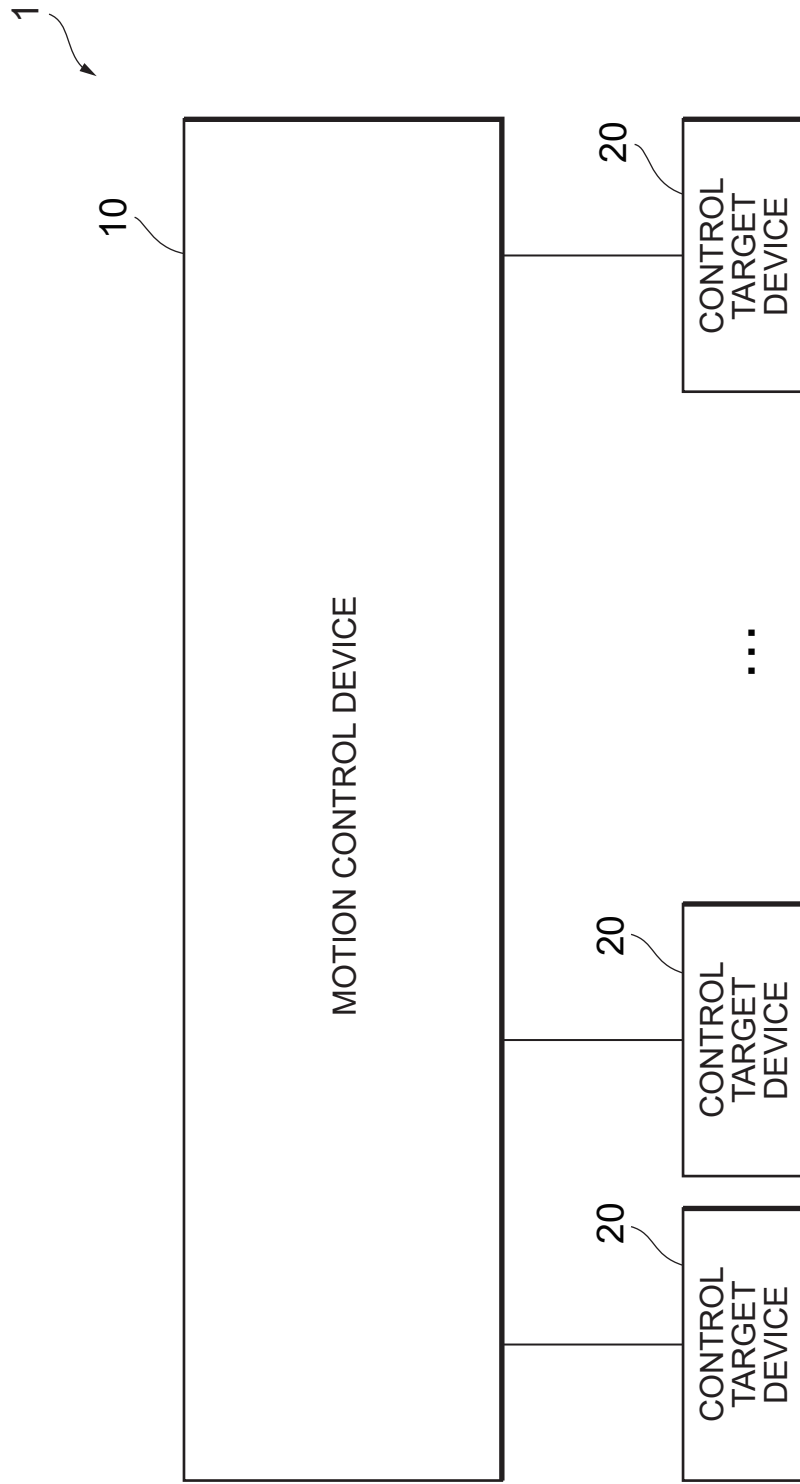


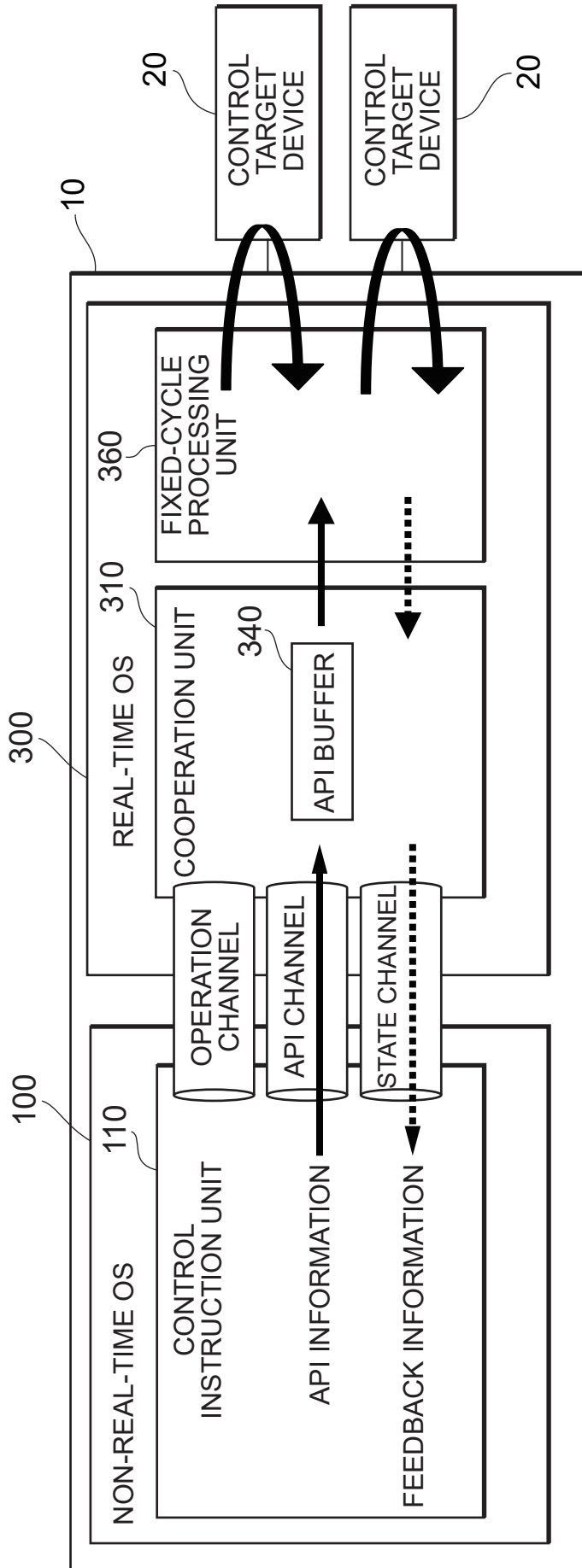
FIG. 2

FIG.3

API CHANNEL	
UNDER-RECORDING FLAG	
DEVICE IDENTIFIER	
MODULE IDENTIFIER	
CONTROL COMMAND IDENTIFIER	
API BUFFER IDENTIFIER	
COMMAND VALUE	
EXISTENCE REPORT	

(a)

STATE CHANNEL	
MODULE IDENTIFIER	
ERROR CODE	
FEEDBACK INFORMATION	

(b)

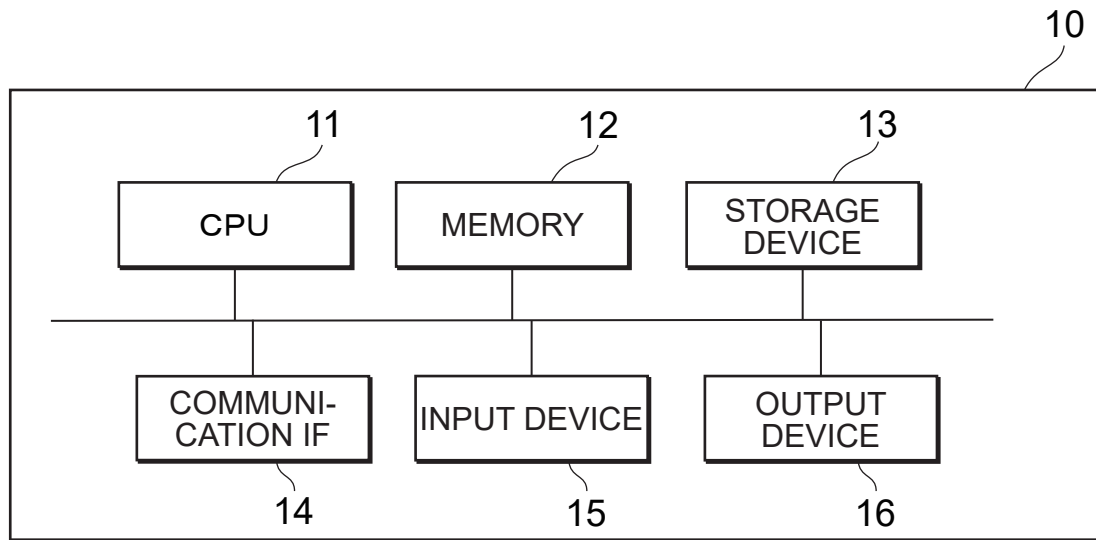
FIG. 4

FIG. 5

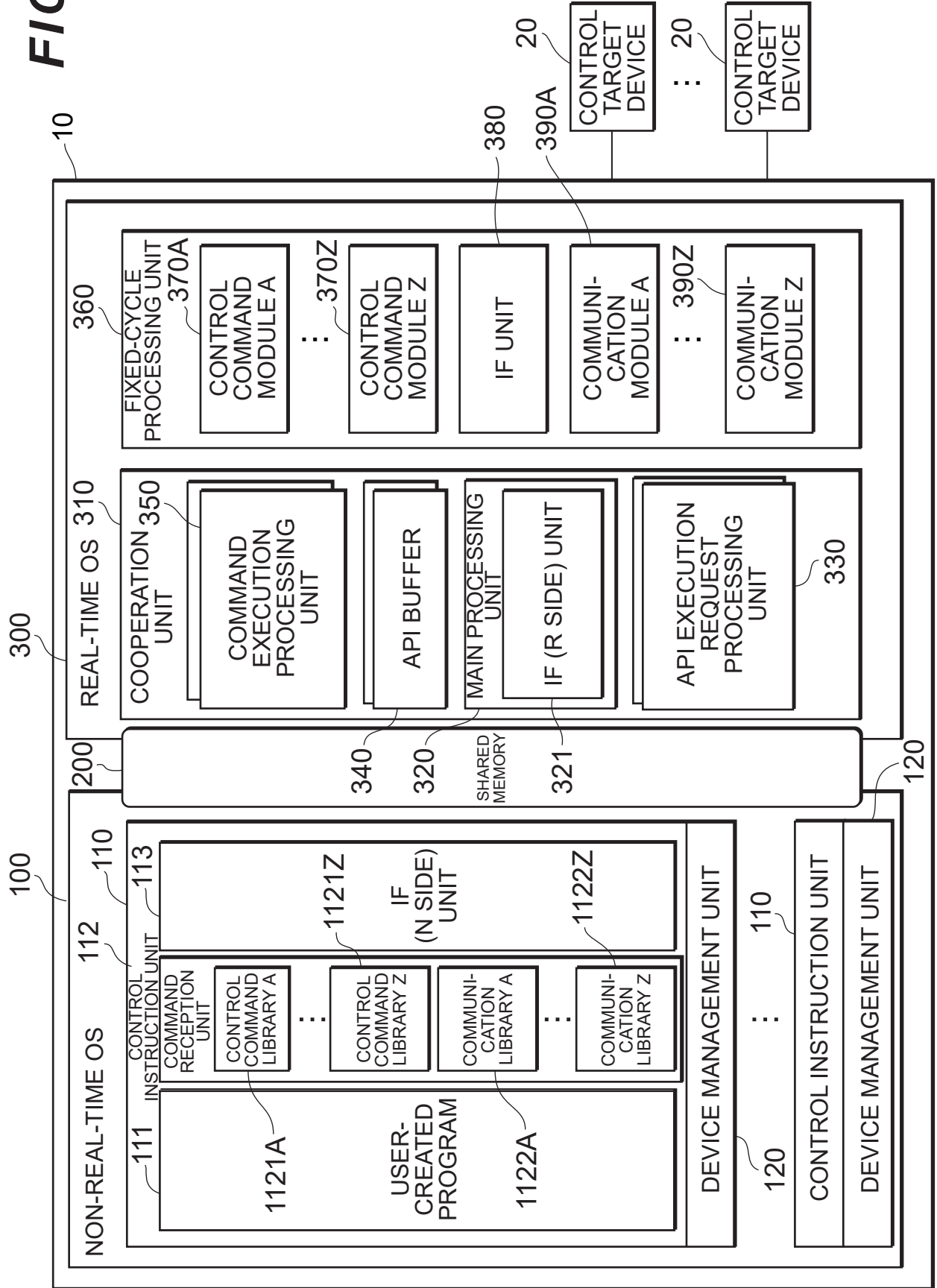


FIG. 6

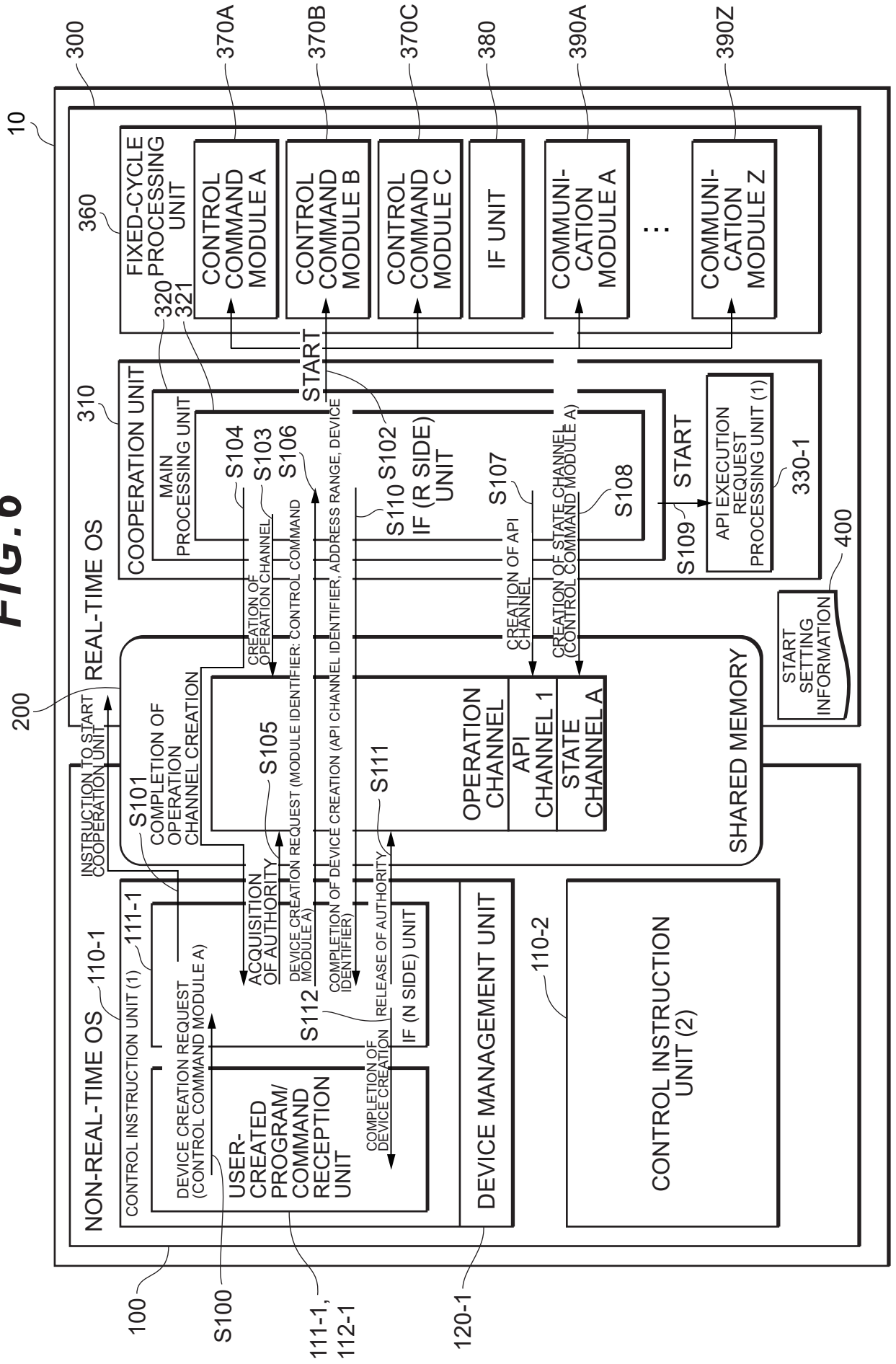


FIG.7

DEVICE MANAGEMENT INFORMATION
(CONTROL INSTRUCTION UNIT (1))

DEVICE IDENTIFIER	API CHANNEL IDENTIFIER
D1	API CHANNEL 1

(a)

DEVICE MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

DEVICE IDENTIFIER	API CHANNEL IDENTIFIER
D1	API CHANNEL 1

(b)

STATE CHANNEL MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

STATE CHANNEL IDENTIFIER	MODULE IDENTIFIER
STATE CHANNEL A	CONTROL COMMAND MODULE A

(c)

ADDRESS MANAGEMENT INFORMATION
(IF (N SIDE) UNIT OF CONTROL INSTRUCTION UNIT (1))

CHANNEL IDENTIFIER	ADDRESS RANGE OF SHARED MEMORY
OPERATION CHANNEL	xxx ~ xxx
API CHANNEL 1	xxx ~ xxx
STATE CHANNEL A	xxx ~ xxx

(d)

ADDRESS MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

CHANNEL IDENTIFIER	ADDRESS RANGE OF SHARED MEMORY
OPERATION CHANNEL	xxx ~ xxx
API CHANNEL 1	xxx ~ xxx
STATE CHANNEL A	xxx ~ xxx

(e)

DEVICE MANAGEMENT INFORMATION
(CONTROL INSTRUCTION UNIT (2))

DEVICE IDENTIFIER	API CHANNEL IDENTIFIER
D2	API CHANNEL 2

(a)

DEVICE MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

DEVICE IDENTIFIER	API CHANNEL IDENTIFIER
D1	API CHANNEL 1
D2	API CHANNEL 2

(b)

STATE CHANNEL MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

STATE CHANNEL IDENTIFIER	MODULE IDENTIFIER
STATE CHANNEL A	CONTROL COMMAND MODULE A
STATE CHANNEL B	CONTROL COMMAND MODULE B
STATE CHANNEL C	CONTROL COMMAND MODULE C

(c)

ADDRESS MANAGEMENT INFORMATION
(IF (N SIDE) UNIT OF CONTROL INSTRUCTION UNIT (2))

CHANNEL IDENTIFIER	ADDRESS RANGE OF SHARED MEMORY
CHANNEL IDENTIFIER	xxx~xxx
API CHANNEL 2	xxx~xxx
STATE CHANNEL A	xxx~xxx
STATE CHANNEL B	xxx~xxx
STATE CHANNEL C	xxx~xxx

(d)

ADDRESS MANAGEMENT INFORMATION
(IF (R SIDE) UNIT)

CHANNEL IDENTIFIER	ADDRESS RANGE OF SHARED MEMORY
CHANNEL IDENTIFIER	xxx~xxx
API CHANNEL 1	xxx~xxx
STATE CHANNEL A	xxx~xxx
API CHANNEL 2	xxx~xxx
STATE CHANNEL B	xxx~xxx
STATE CHANNEL C	xxx~xxx

(e)

FIG.9

FIG. 10

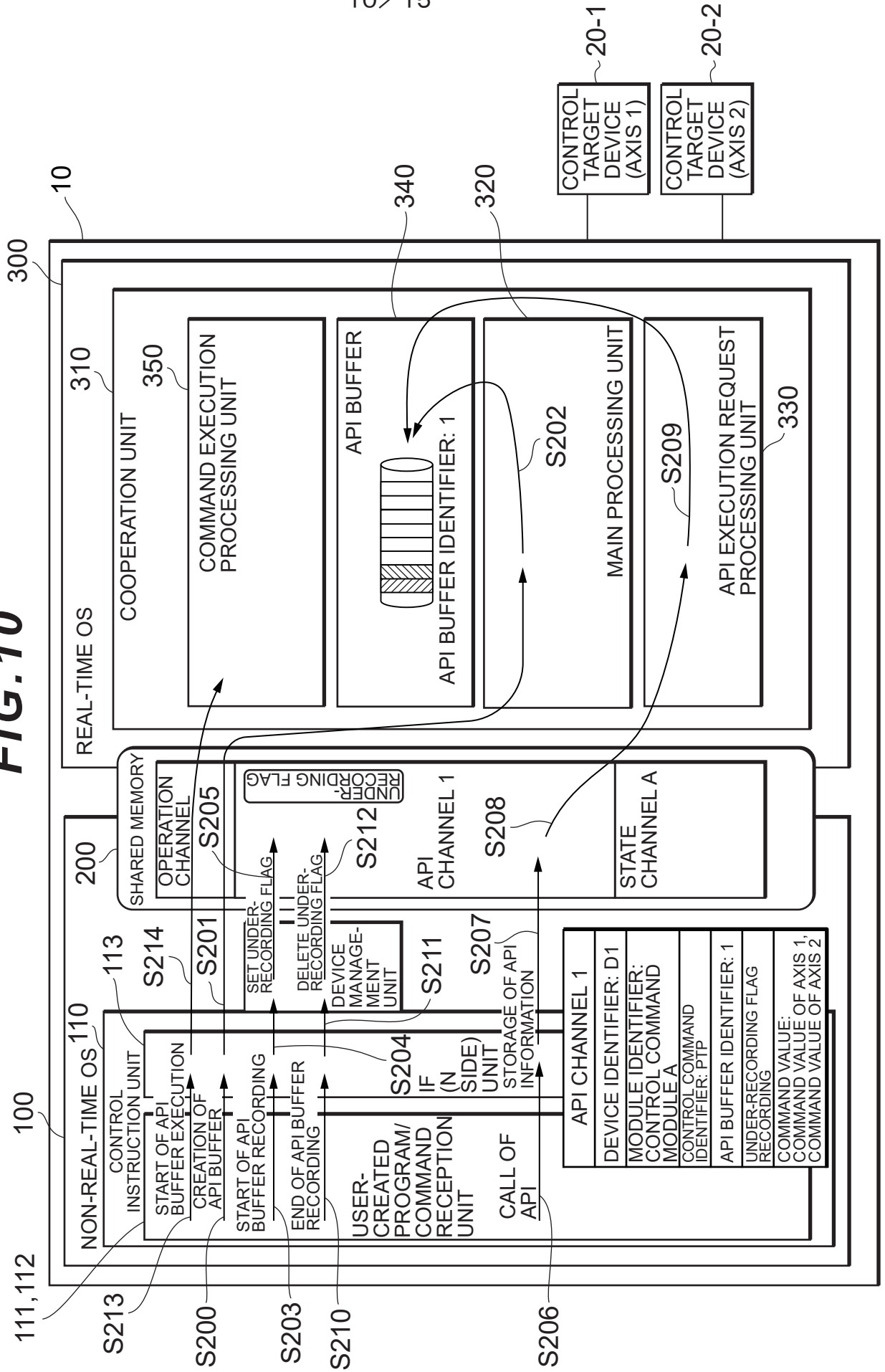


FIG. 11

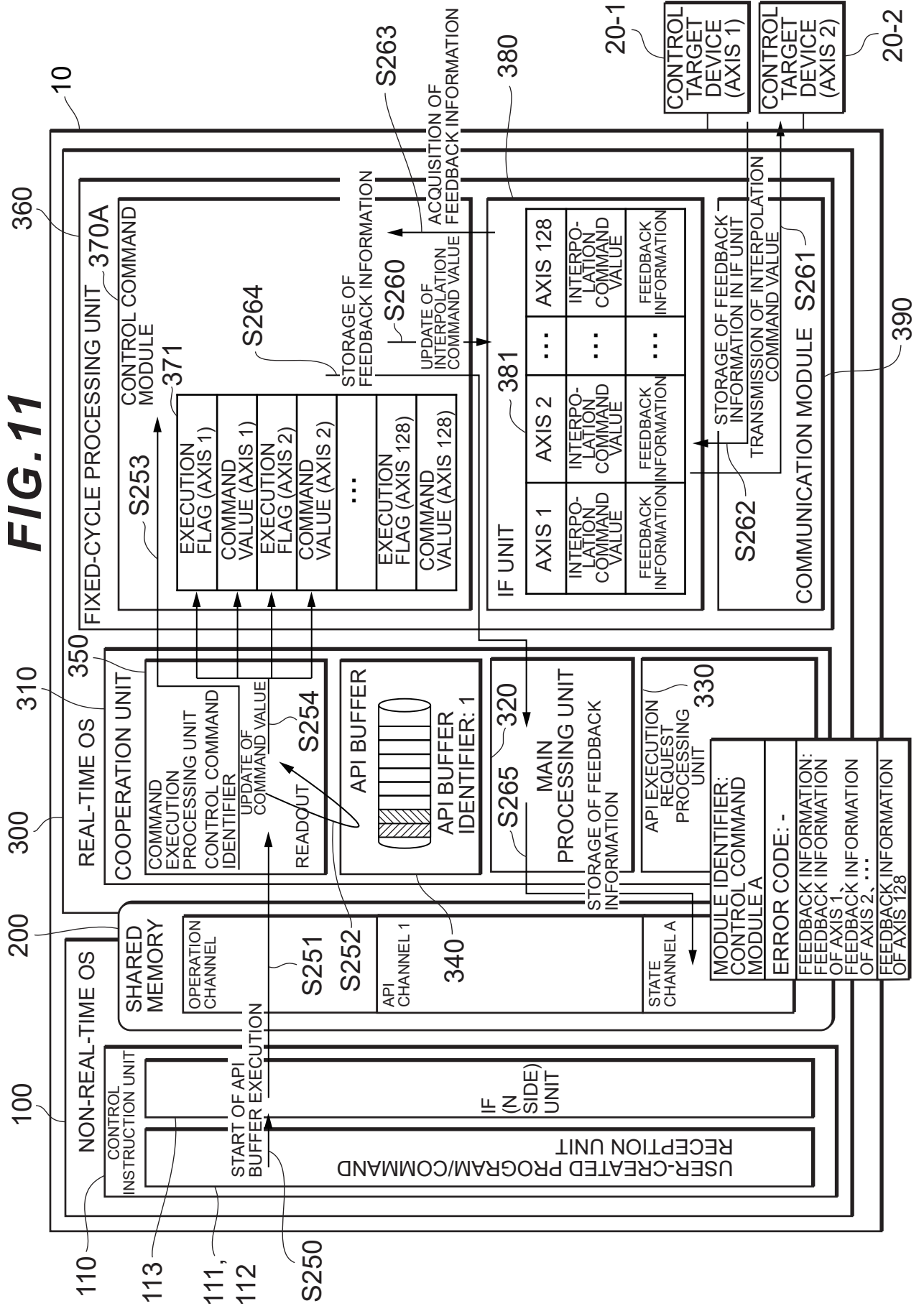


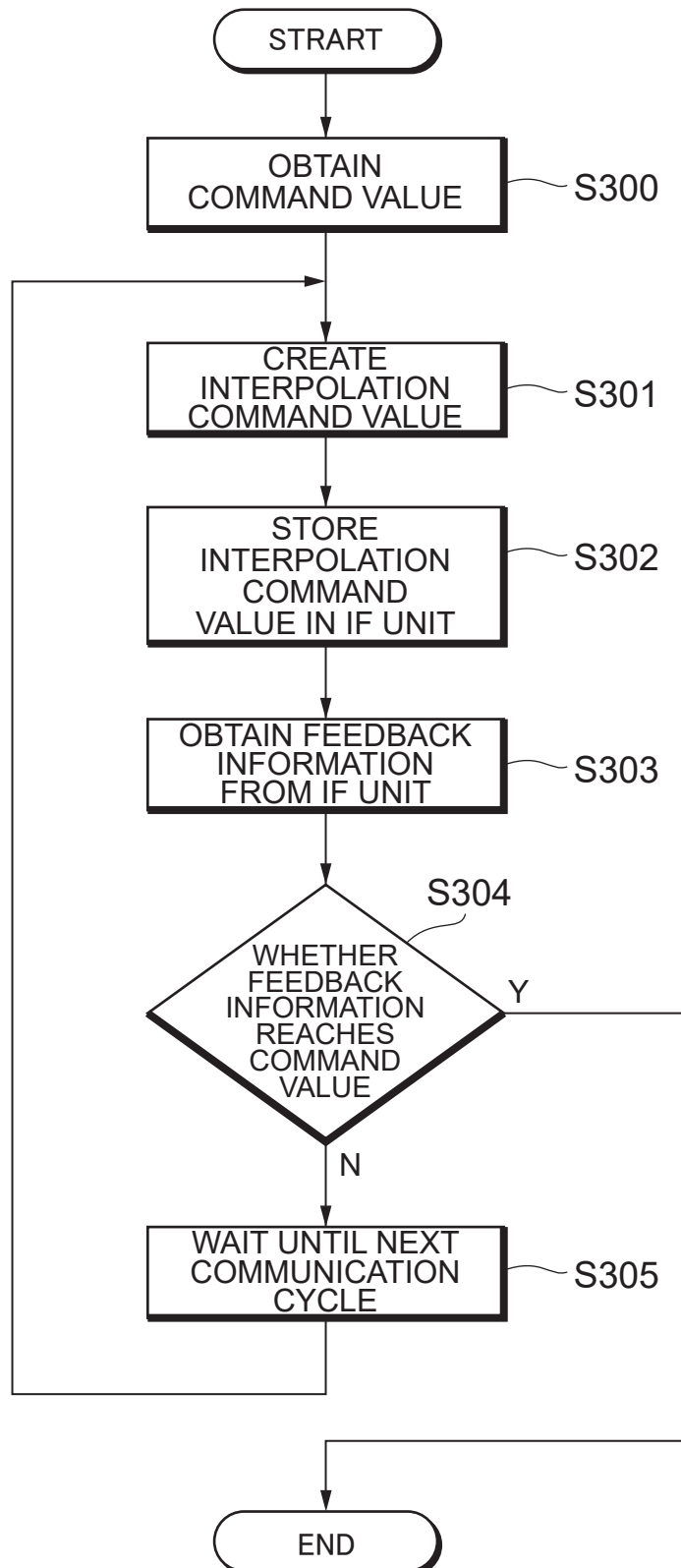
FIG. 12

FIG. 13

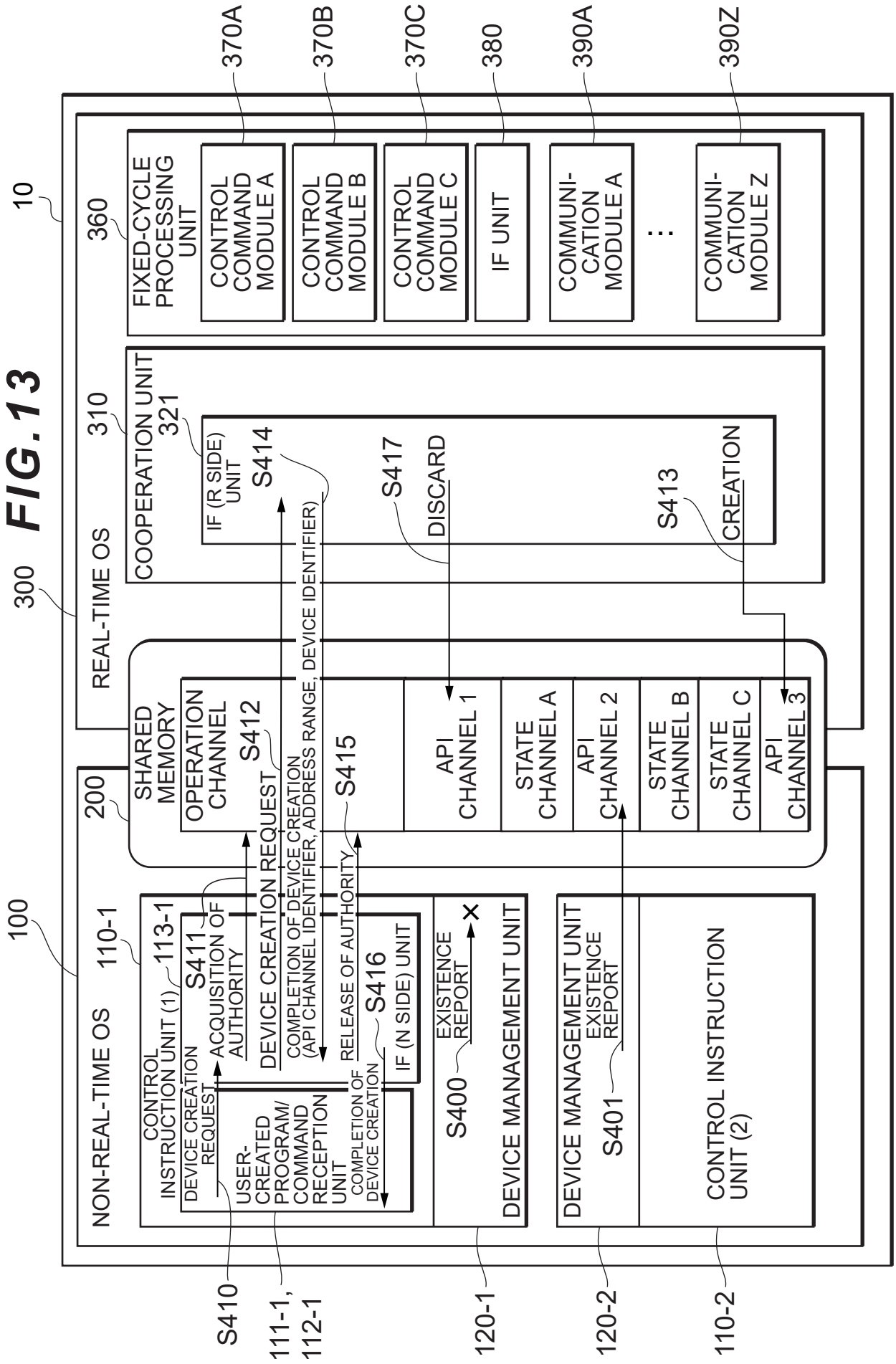


FIG.14

MAPPING INFORMATION

AXIS	COMMUNICATION MODULE	SLAVE NUMBER
AXIS 1	COMMUNICATION MODULE (EtherCAT)	1
AXIS 2	COMMUNICATION MODULE (EtherCAT)	2
AXIS 3	COMMUNICATION MODULE (RTEX)	1
...	...	...

FIG. 15

