Fig.1

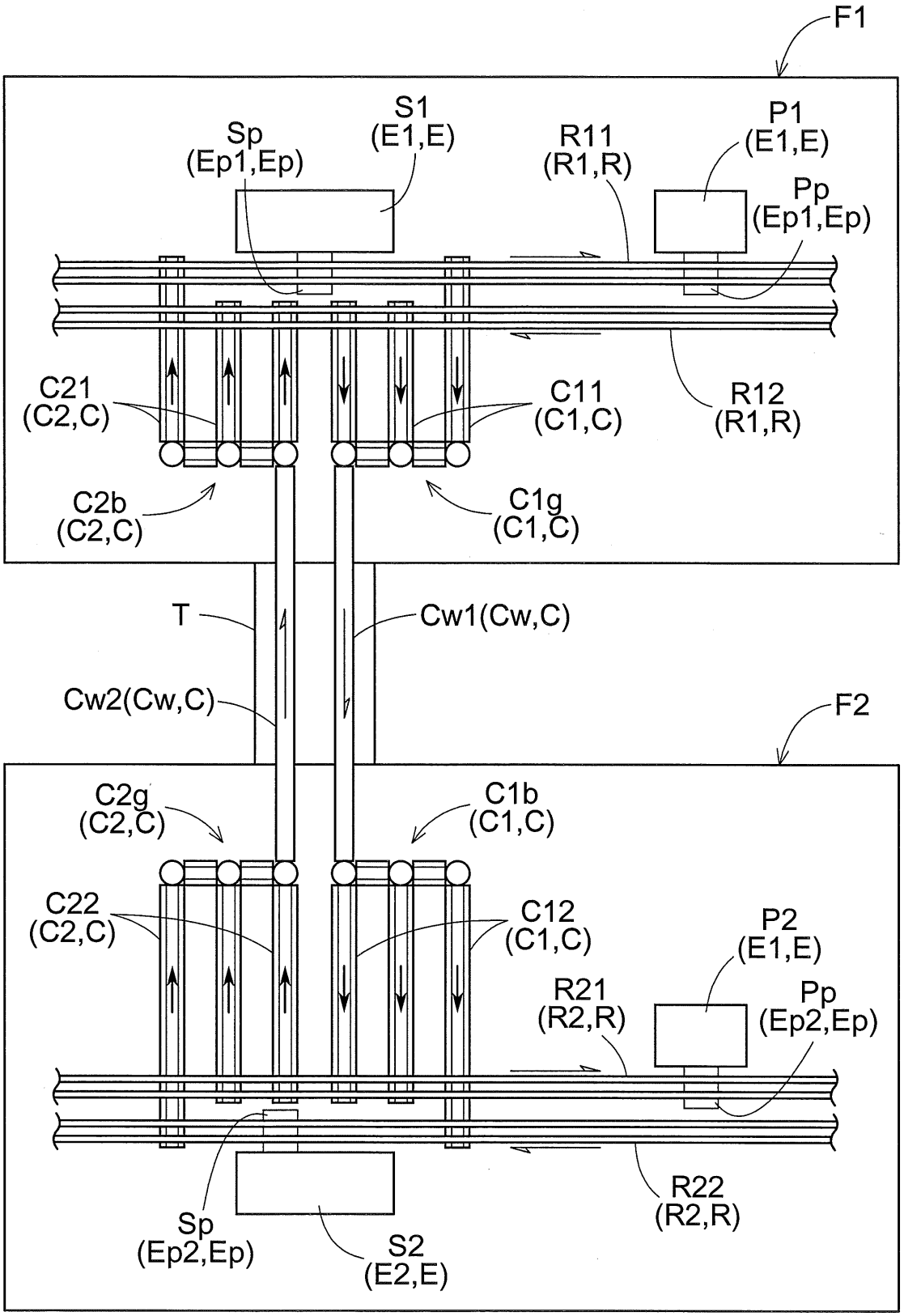

F1
S1
(E1,E)
Sp
(Ep1,Ep)
R11
(R1,R)
P1
(E1,E)
Pp
(Ep1,Ep)
C21
(C2,C)
C11
(C1,C)
R12
(R1,R)
C2b
(C2,C)
C1g
(C1,C)
T
Cw1(Cw,C)
Cw2(Cw,C)
F2
C2g
(C2,C)
C1b
(C1,C)
C22
(C2,C)
C12
(C1,C)
P2
(E1,E)
R21
(R2,R)
Pp
(Ep2,Ep)
R22
(R2,R)
Sp
(Ep2,Ep)
S2
(E2,E)

Fig.2

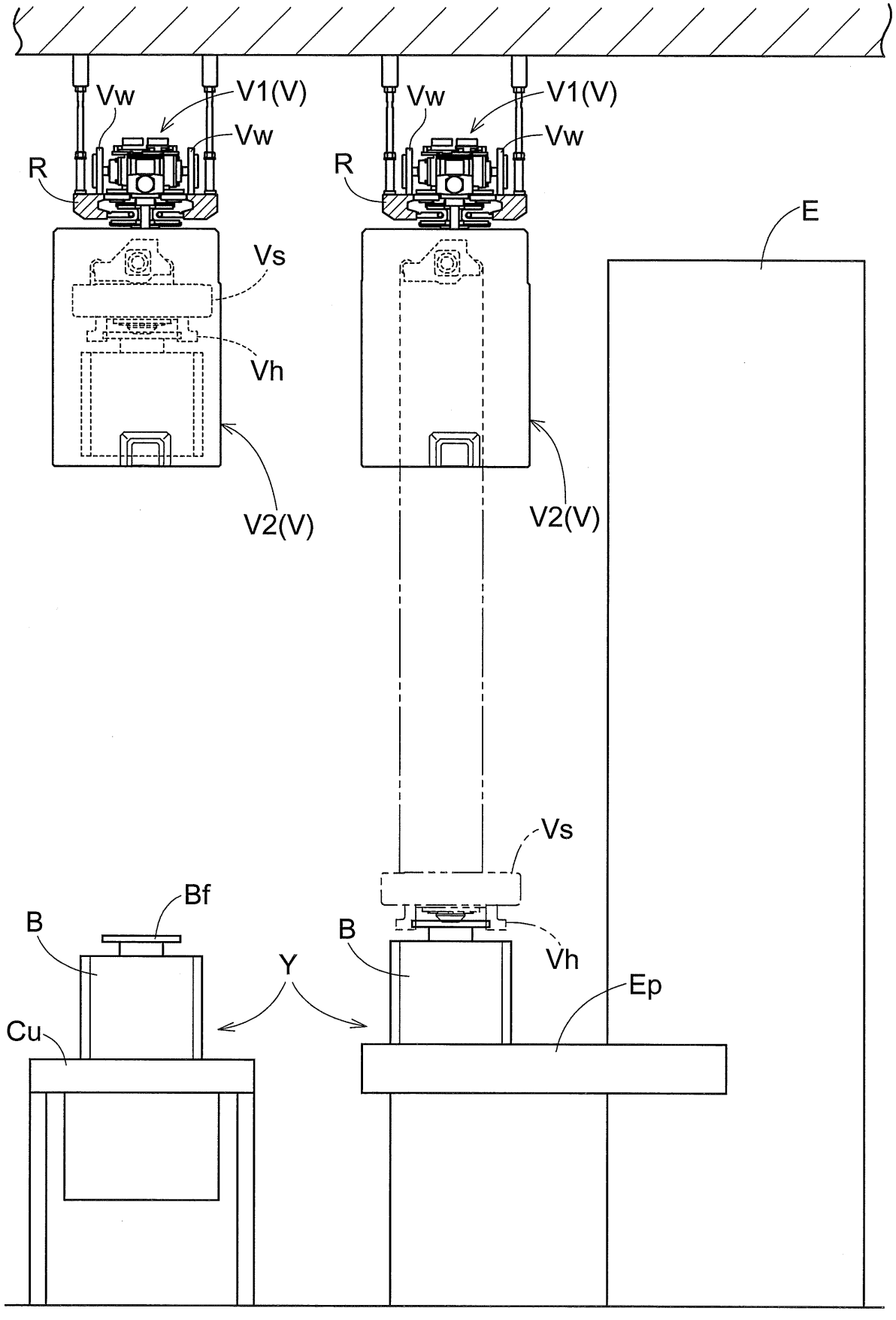


Fig.3

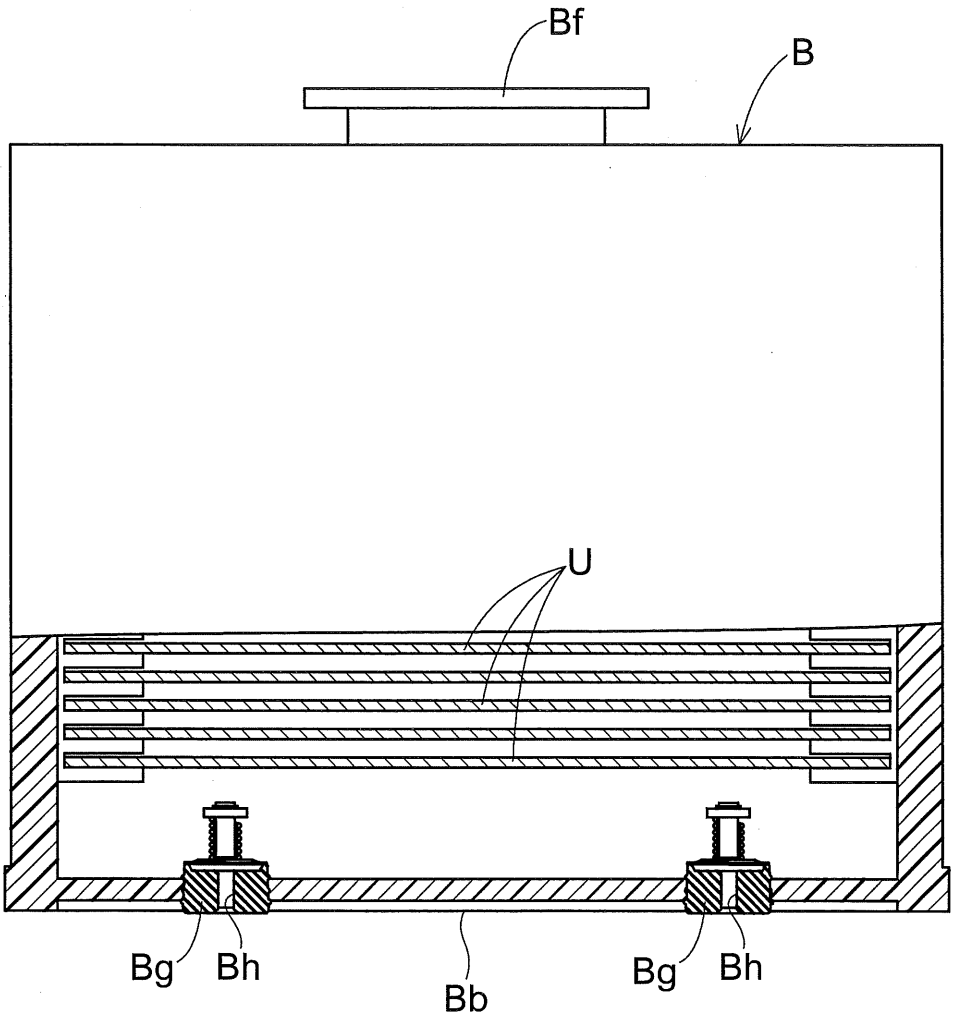


Fig.4

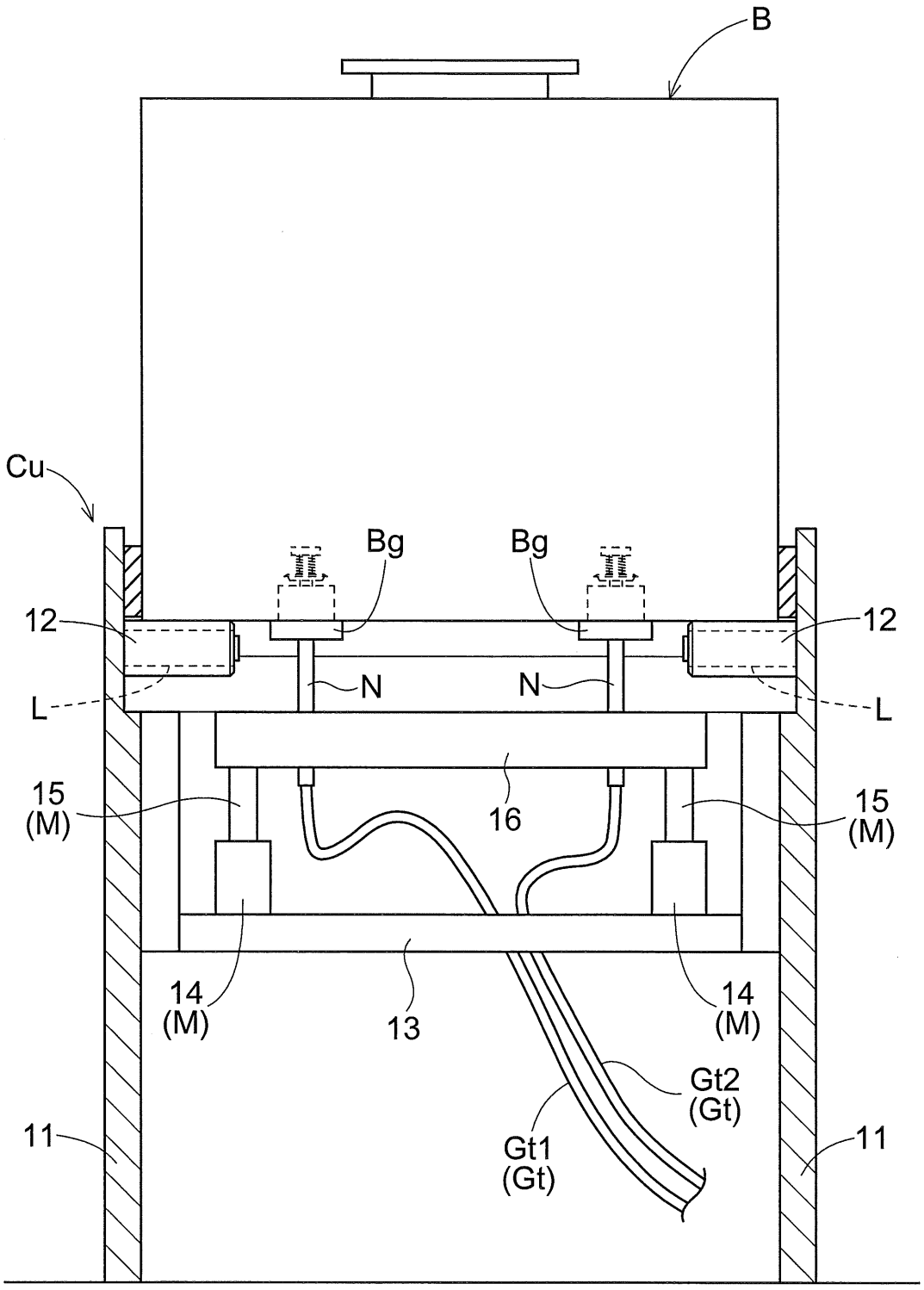


Fig.5

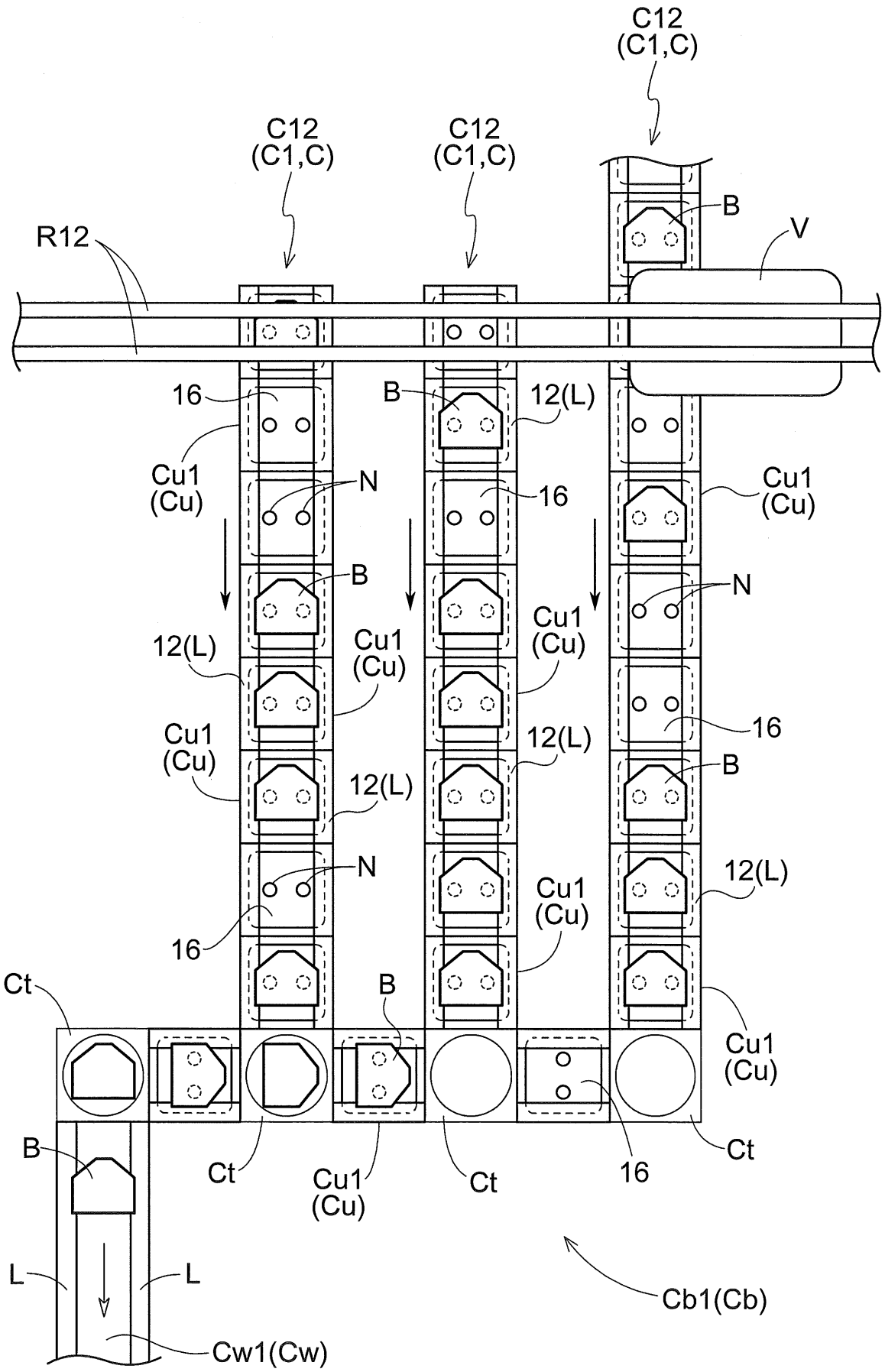

C12
(C1,C)
C12
(C1,C)
C12
(C1,C)
R12
B
V
16
B
12(L)
Cu1
(Cu)
N
16
Cu1
(Cu)
B
N
12(L)
Cu1
(Cu)
Cu1
(Cu)
16
Cu1
(Cu)
12(L)
B
12(L)
N
Cu1
(Cu)
12(L)
16
Ct
B
Cu1
(Cu)
B
Ct
Ct
Cu1
(Cu)
Ct
16
Ct
L
L
Cb1(Cb)
Cw1(Cw)

Fig.6

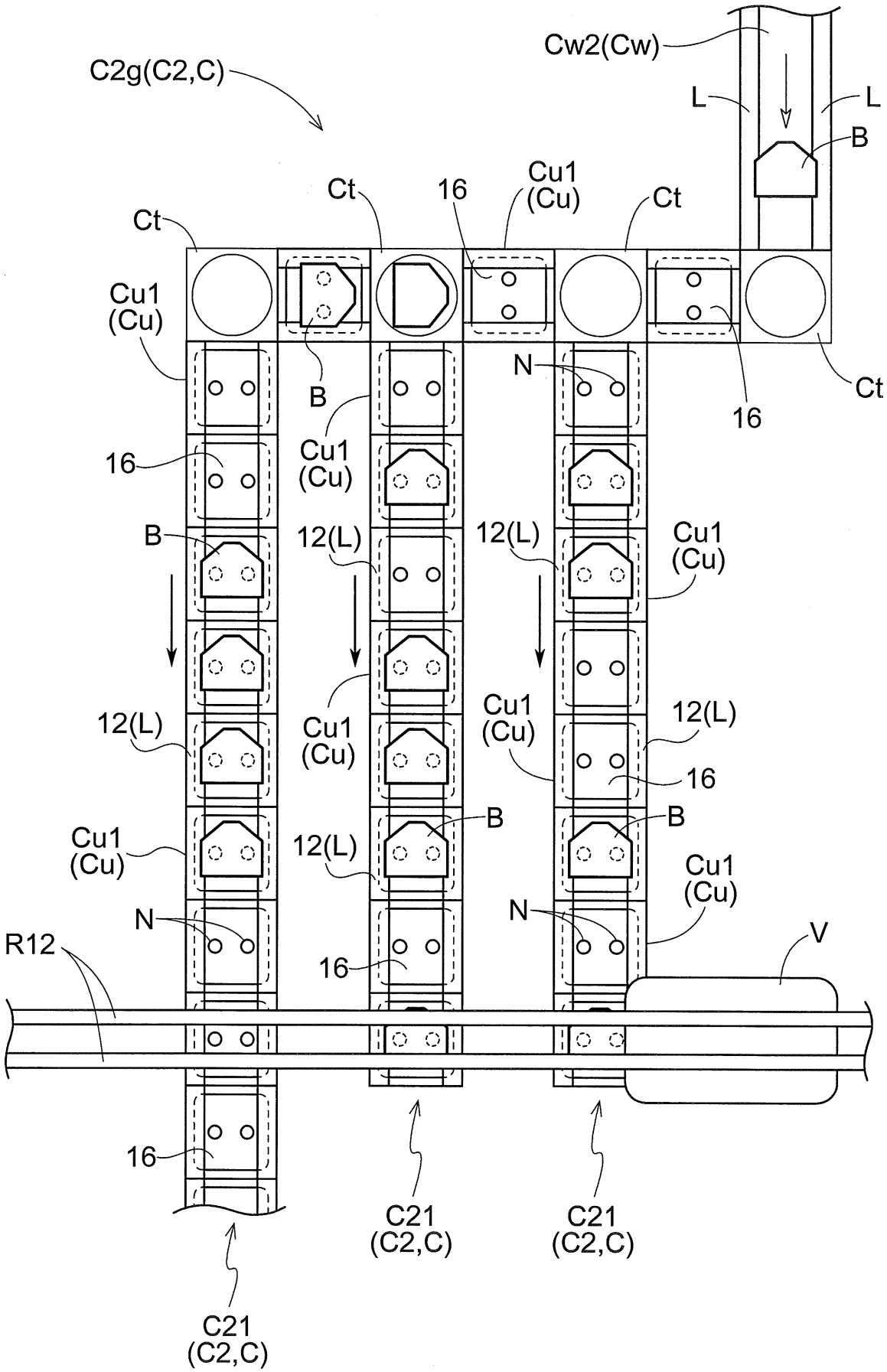

C2g(C2,C)
Cw2(Cw)
L
L
B
Ct
16
Cu1
(Cu)
Ct
Ct
Cu1
(Cu)
B
N
Ct
16
16
Cu1
(Cu)
B
12(L)
12(L)
Cu1
(Cu)
12(L)
Cu1
(Cu)
Cu1
(Cu)
12(L)
16
B
B
Cu1
(Cu)
12(L)
Cu1
(Cu)
N
N
R12
V
16
16
C21
(C2,C)
C21
(C2,C)
C21
(C2,C)

Fig.7

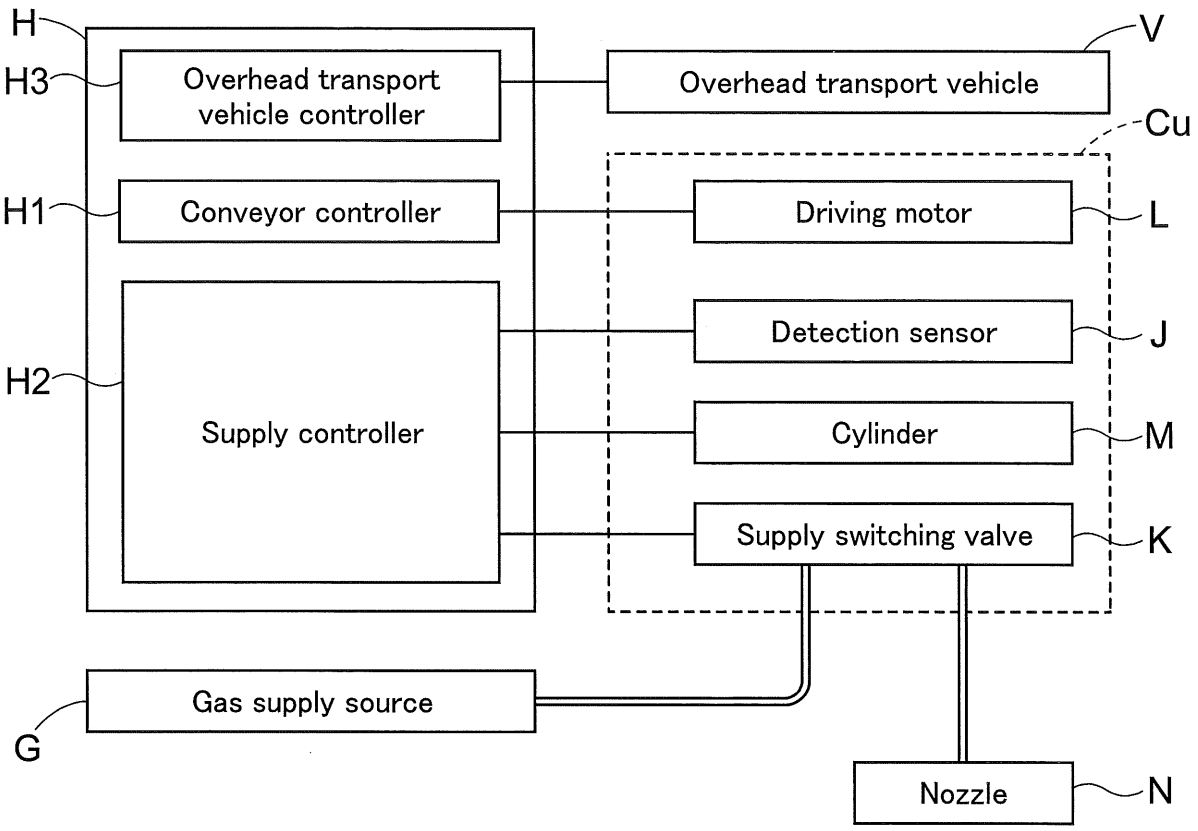

H
H3
Overhead transport vehicle controller
Overhead transport vehicle
V
Cu
H1
Conveyor controller
Driving motor
L
H2
Supply controller
Detection sensor
J
Cylinder
M
Supply switching valve
K
Gas supply source
G
Nozzle
N

Fig.8

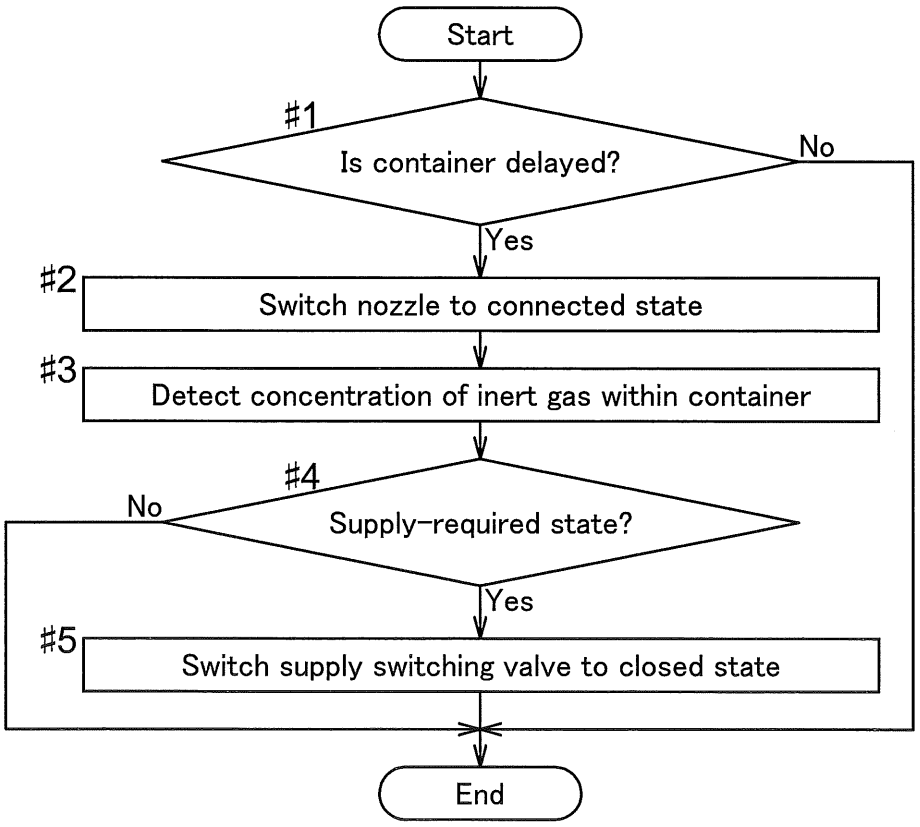

Start
#1
Is container delayed?
No
Yes
#2
Switch nozzle to connected state
#3
Detect concentration of inert gas within container
#4
No
Supply-required state?
Yes
#5
Switch supply switching valve to closed state
End

Fig.9

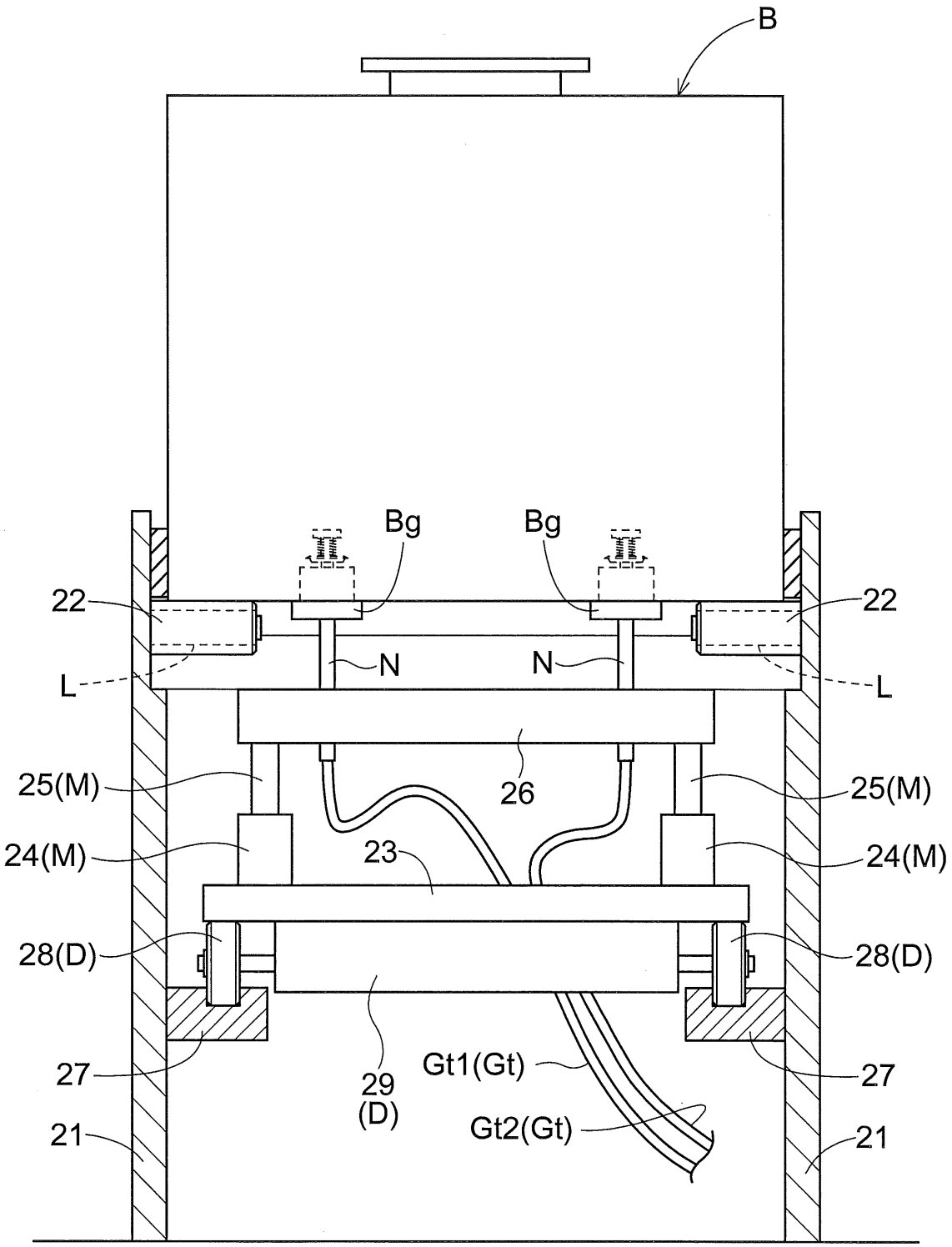

B
Bg
Bg
22
22
N
N
L
L
25(M)
25(M)
26
24(M)
24(M)
23
28(D)
28(D)
27
27
29
(D)
Gt1(Gt)
Gt2(Gt)
21
21

Fig.10

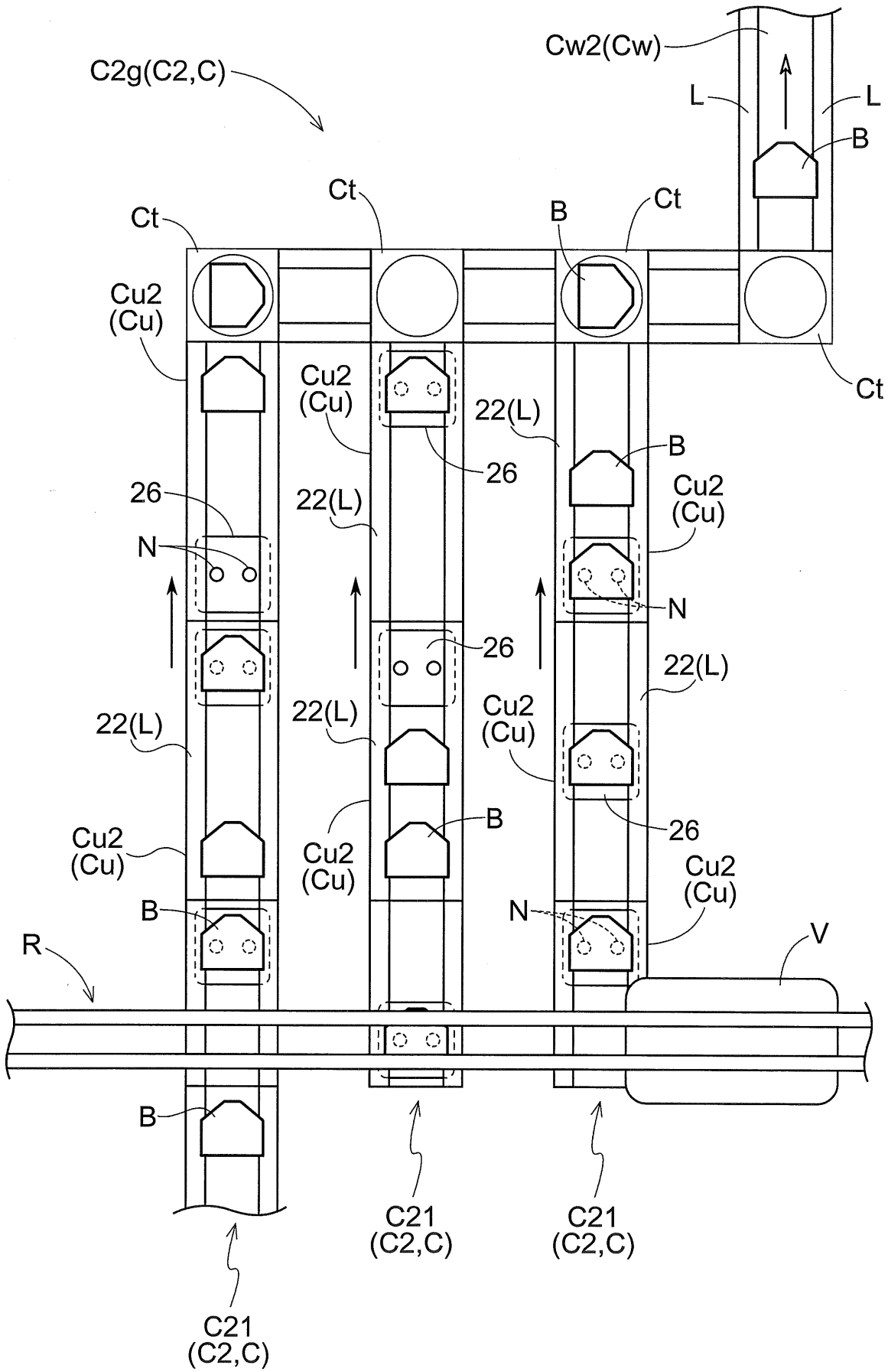
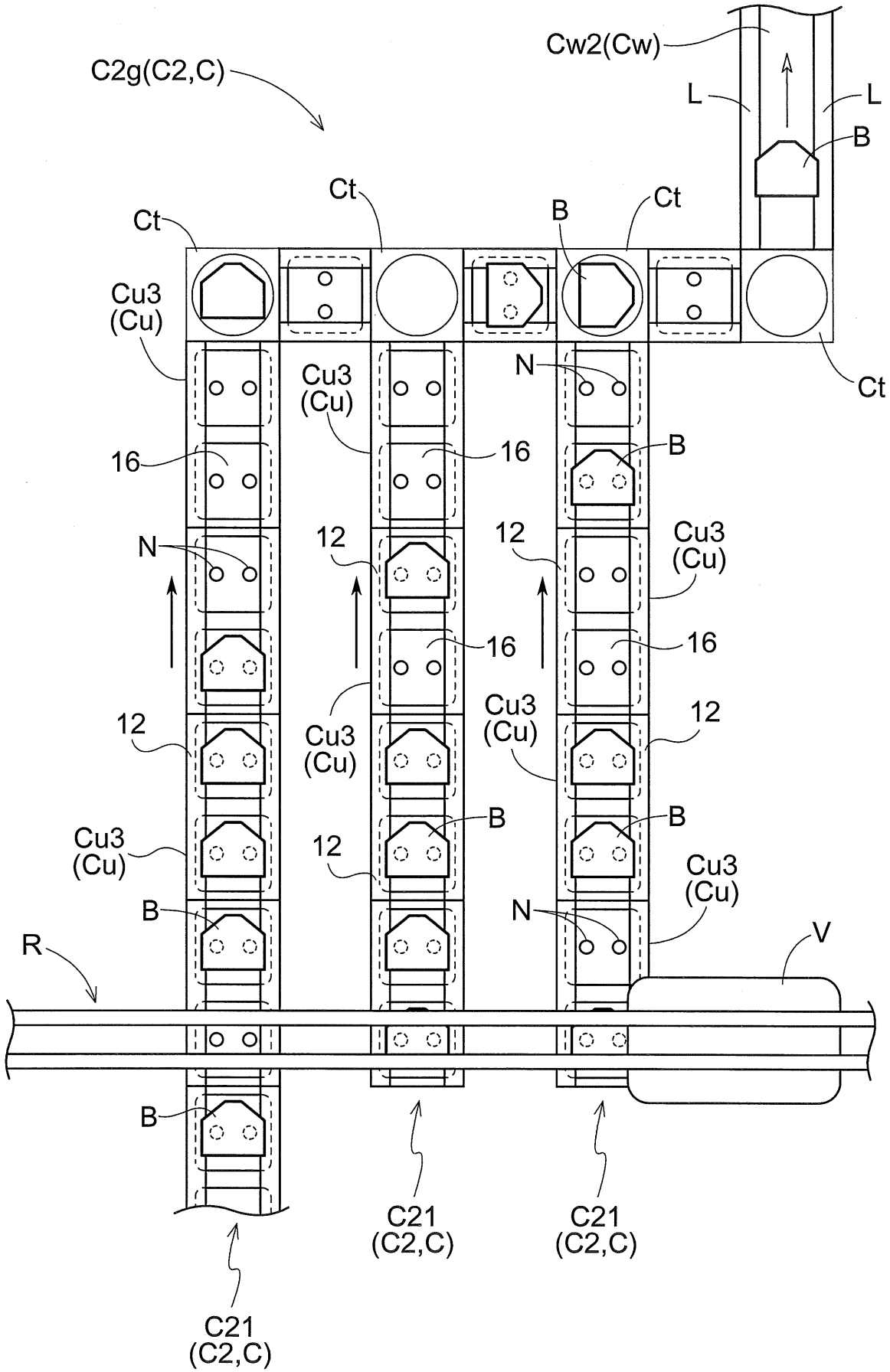

C2g(C2,C)
Cw2(Cw)
L
L
B
Ct
Ct
Ct
B
Ct
Cu2
(Cu)
Ct
Cu2
(Cu)
22(L)
26
B
26
22(L)
Cu2
(Cu)
N
N
26
22(L)
22(L)
22(L)
Cu2
(Cu)
B
26
Cu2
(Cu)
Cu2
(Cu)
Cu2
(Cu)
B
N
V
R
B
C21
(C2,C)
C21
(C2,C)
C21
(C2,C)

Fig.11


C2g(C2,C)
Cw2(Cw)
L
L
B
Ct
Ct
B
Ct
Ct
Cu3
(Cu)
Cu3
(Cu)
N
Ct
16
16
B
N
12
12
Cu3
(Cu)
16
16
12
Cu3
(Cu)
Cu3
(Cu)
12
B
B
Cu3
(Cu)
12
B
N
Cu3
(Cu)
R
V
B
C21
(C2,C)
C21
(C2,C)
C21
(C2,C)