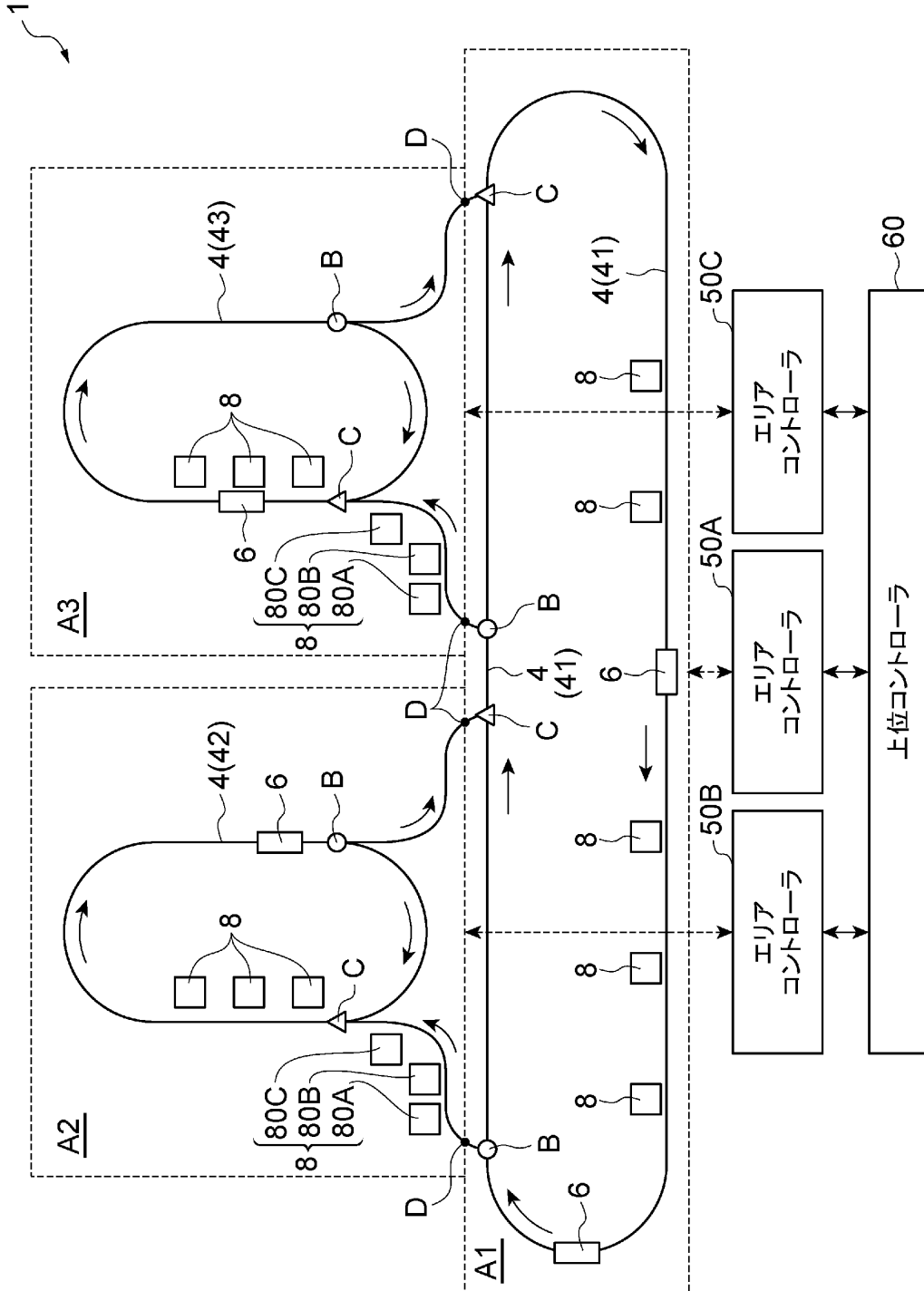
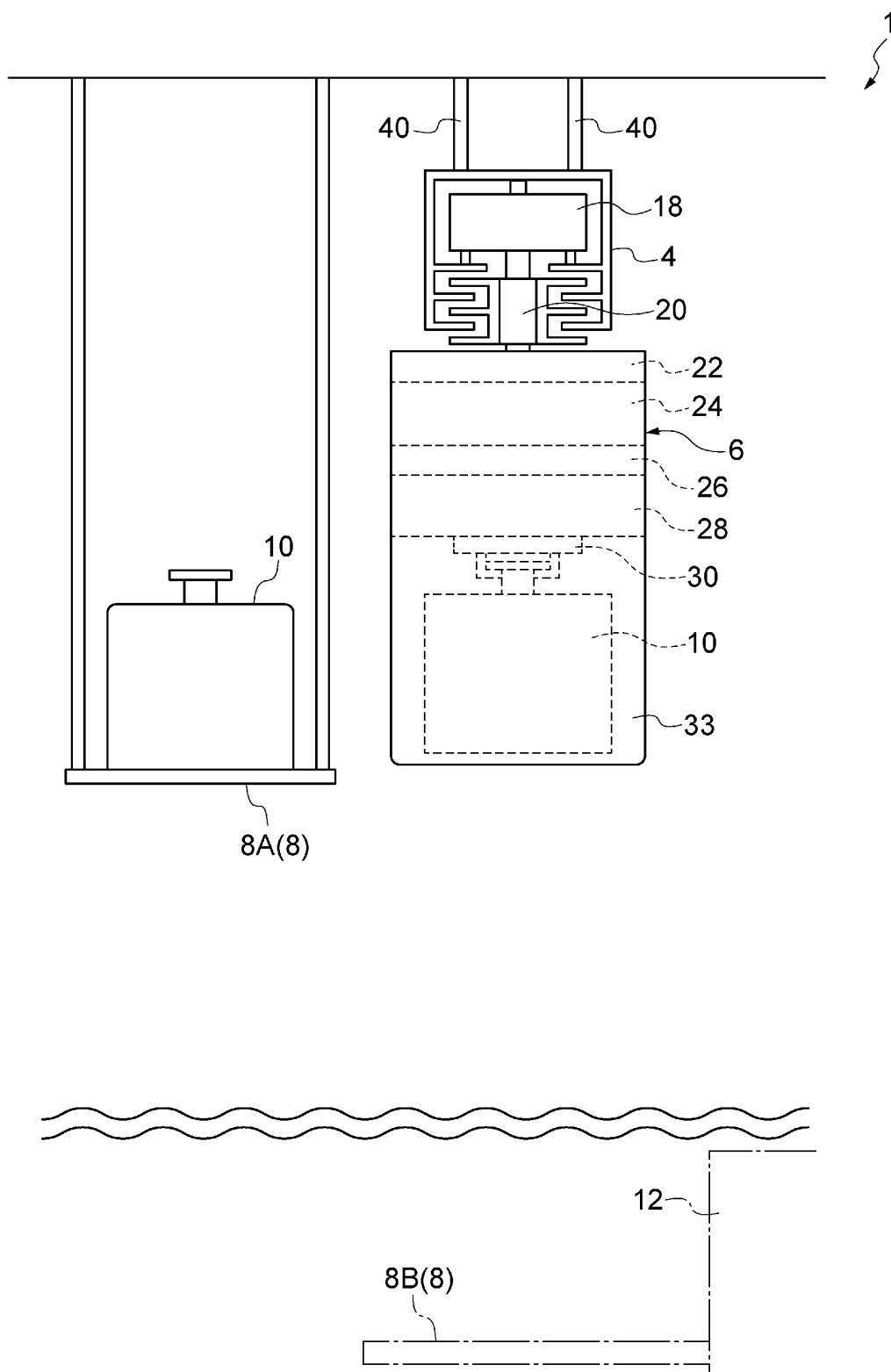


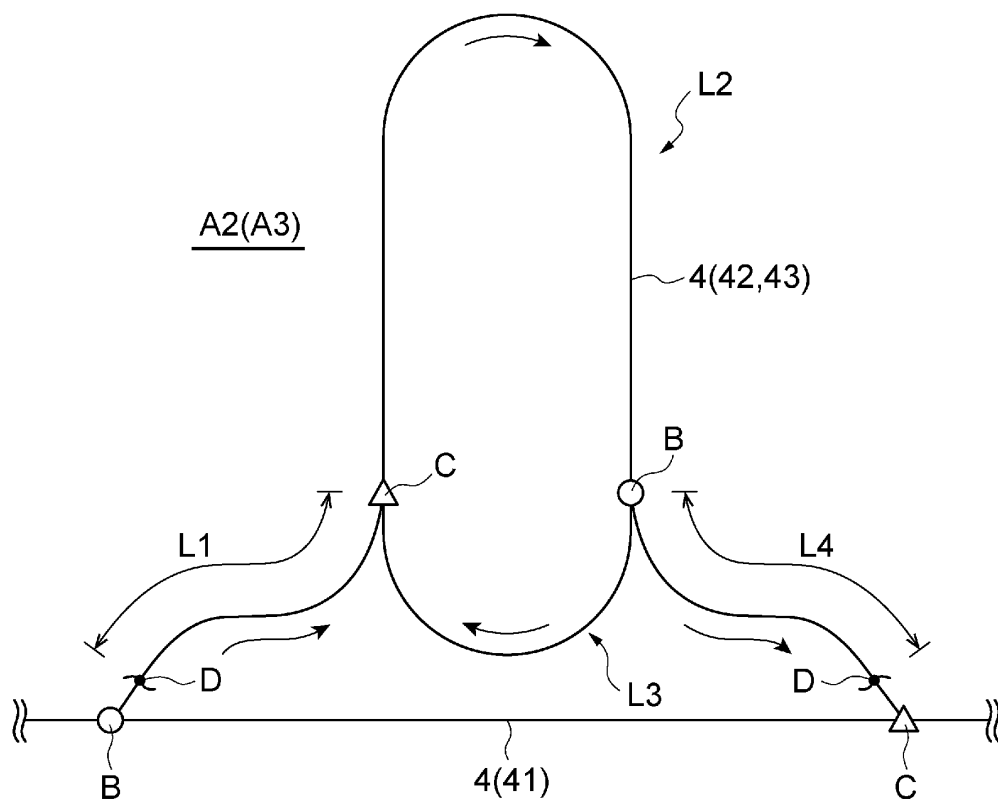
[図1]



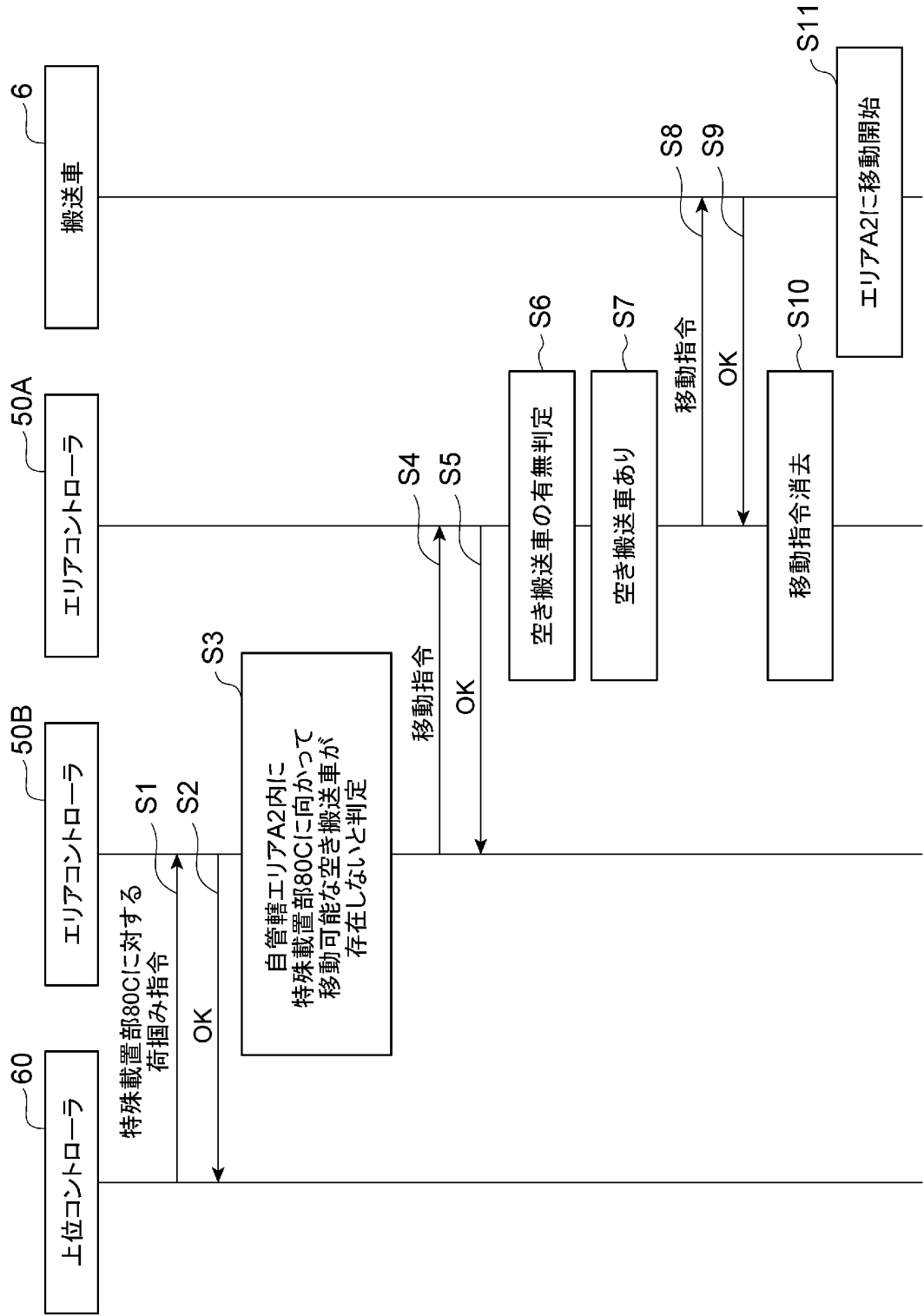
[図2]



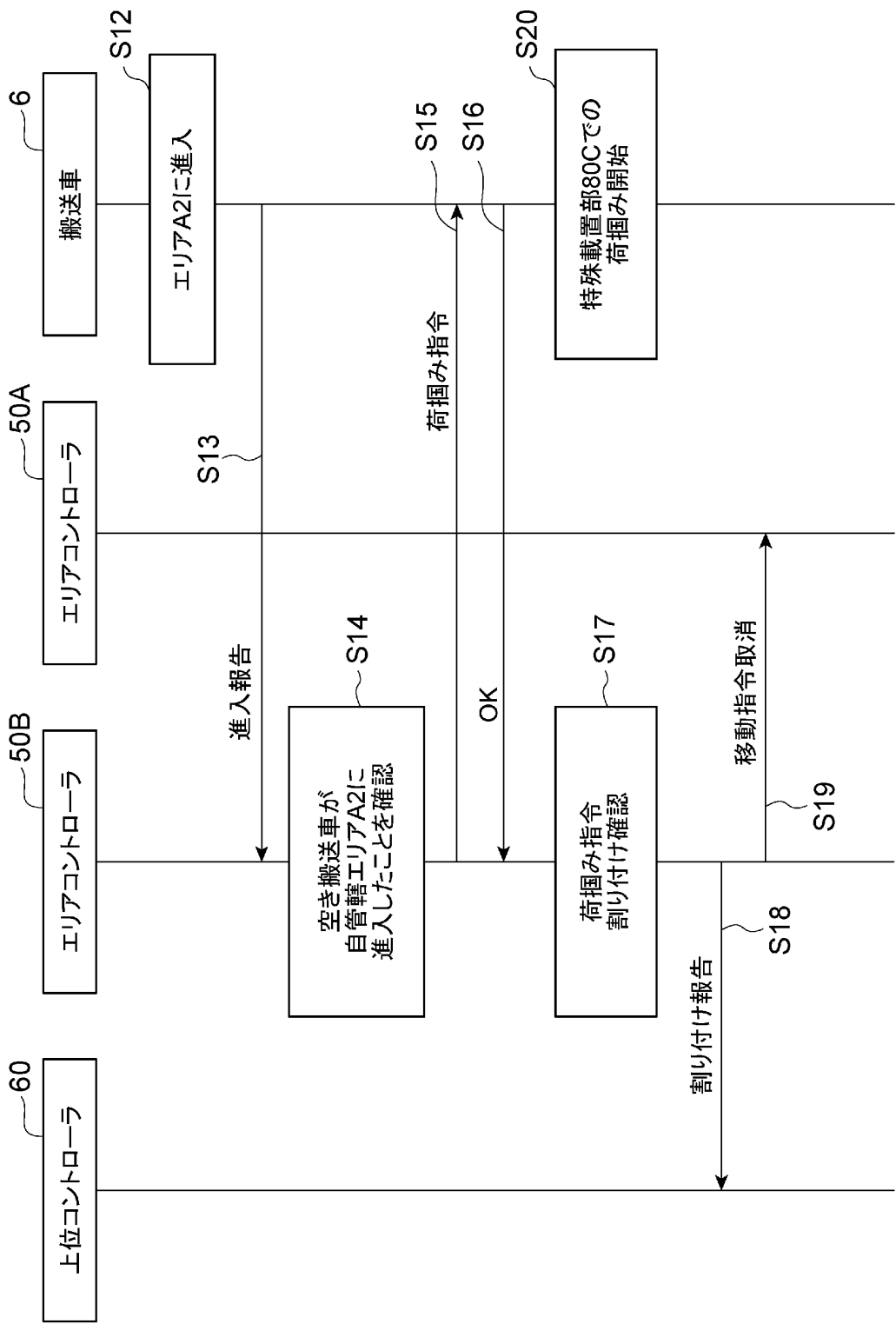
[図3]



[図4]



[図5]



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sequenceDiagram
    participant 60 as 60 上位コントローラ
    participant 50A as 50A エリアコントローラ
    participant 50B as 50B エリアコントローラ
    participant 6 as 6 搬送車

    60->>50B: S1 特殊載置部80Cに対する荷掘み指令
    50B-->>60: S2 OK
    50B->>6: S4 移動指令
    6-->>50B: S5 OK
    50A->>6: S6 空き搬送車の有無判定
    6-->>50A: S30 空き搬送車なし
    50A->>6: S31 特殊載置部80Cよりも上流側の特殊載置部80A、80Bにて荷下ろし完了
    6->>50B: S32 自管轄エリアA2内に特殊載置部80Cに向かって移動可能な空き搬送車が存在すると判定
    
```

Figure 1 is a sequence diagram illustrating the control flow of the vehicle control system. The diagram involves four main components: the Upper Controller (60), Area Controller 50A, Area Controller 50B, and the Transport Vehicle (6). The process begins with the Upper Controller (60) sending a "Load Transfer Instruction to Special Loading Unit 80C" (S1) to Area Controller 50B. Area Controller 50B responds with "OK" (S2). Subsequently, Area Controller 50B sends a "Move Instruction" (S4) to the Transport Vehicle (6). The Transport Vehicle (6) responds with "OK" (S5). Area Controller 50A then performs a "Presence/absence determination of empty transport vehicle" (S6). The Transport Vehicle (6) responds with "No empty transport vehicle" (S30). Area Controller 50A then sends a "Move Instruction" (S31) to the Transport Vehicle (6). The Transport Vehicle (6) then sends a "Move Instruction" (S32) to Area Controller 50B. The diagram also shows the status of the Special Loading Unit 80C, which is "Special Loading Unit 80C, 80A, 80B" and "Special Loading Unit 80C, 80A, 80B".

[図7]

