

100

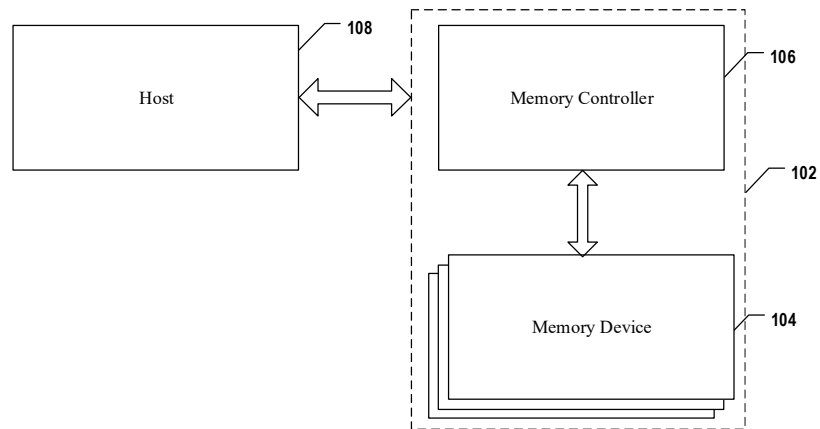


FIG. 1

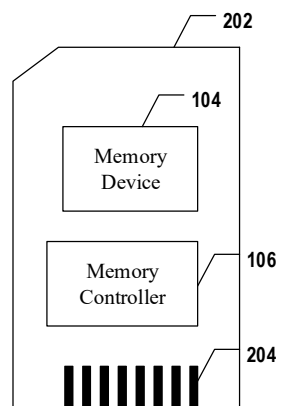


FIG. 2a

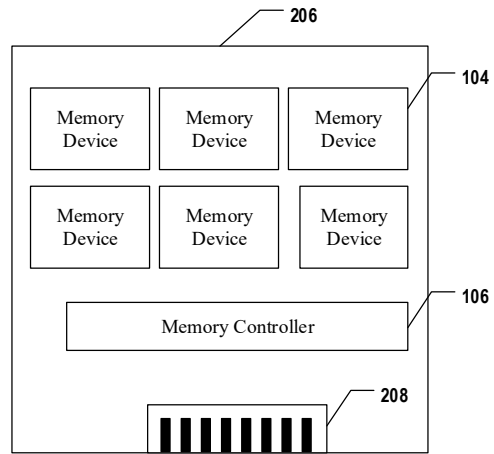


FIG. 2b

300

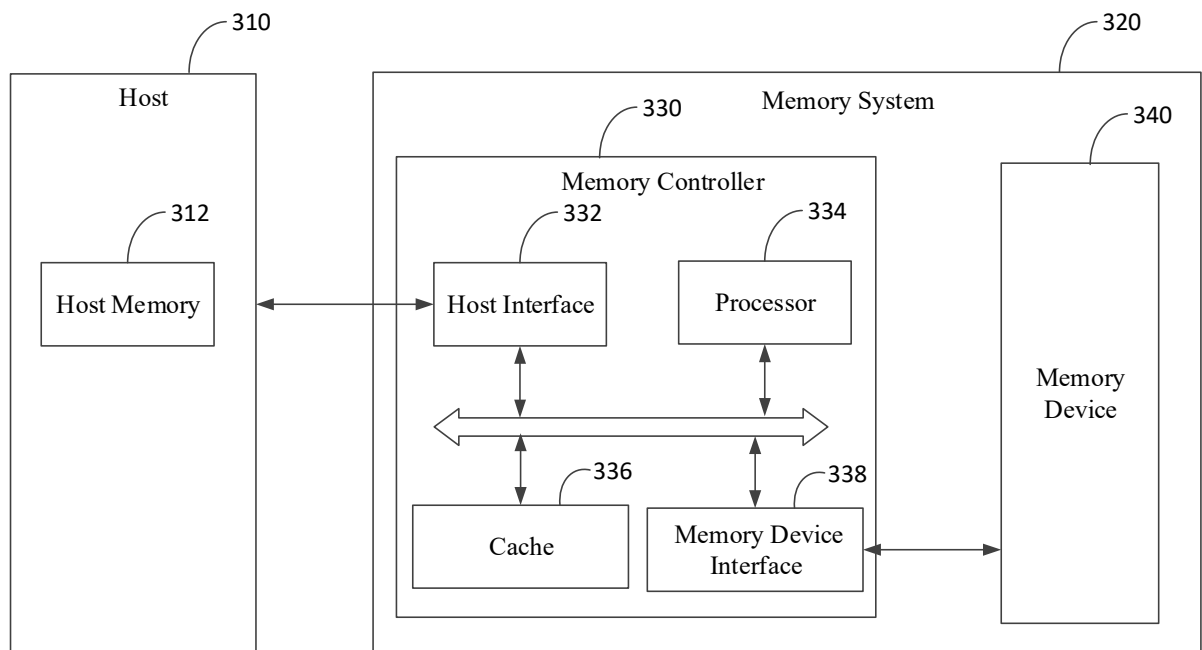


FIG. 3

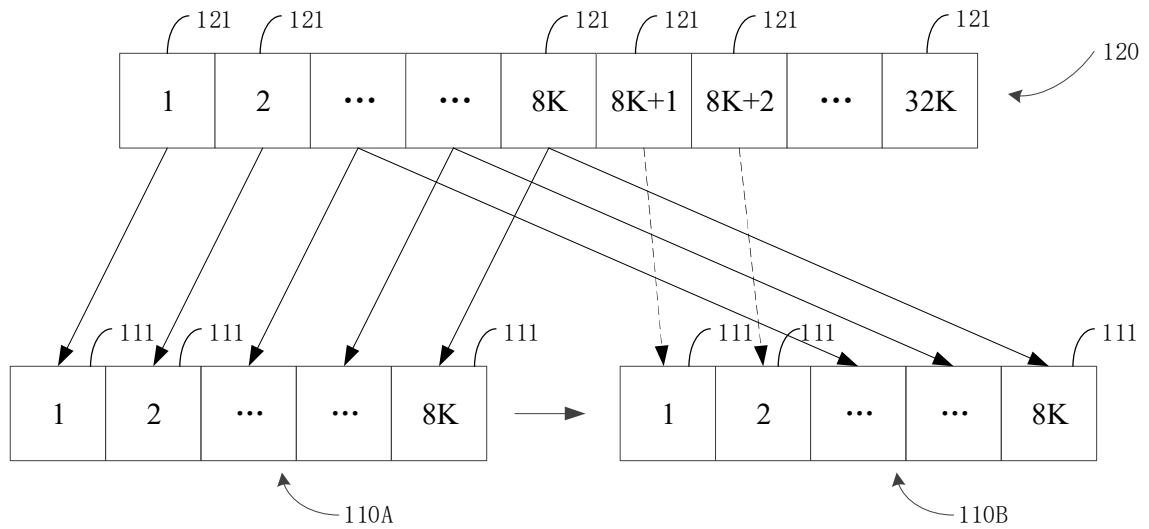


FIG. 4

provide a logical block management table, the logical block management table includes a first sequence corresponding to identities of M first logical blocks, and the identities of the M first logical blocks are constructed as a ring queue and allocation states of the M first logical blocks are managed through the logical block management table, wherein M is an integer greater than or equal to 2

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according to an order of the identities of the M first logical blocks in the ring queue, one first logical block whose allocation state is the first state representing the unallocated state is allocated to one second logical block among N second logical blocks, wherein N is an integer greater than M, and the allocation state of the first logical block is updated from the first state to the second state representing the allocated state in the logical block management table

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FIG. 5

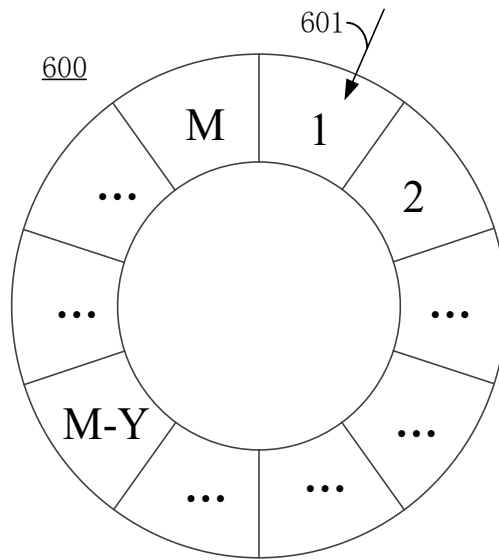


FIG. 6

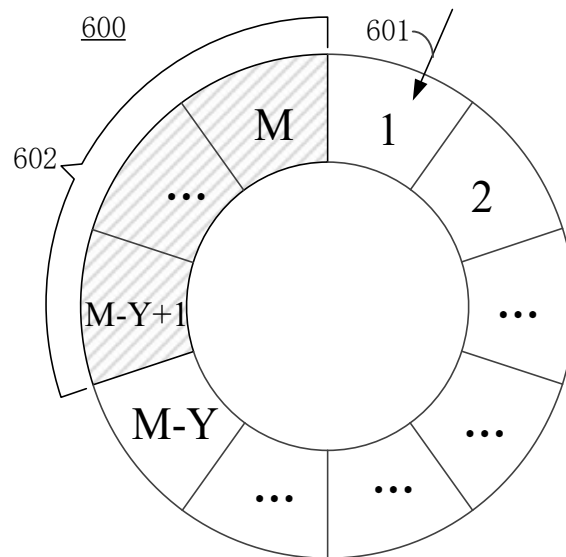


FIG. 7

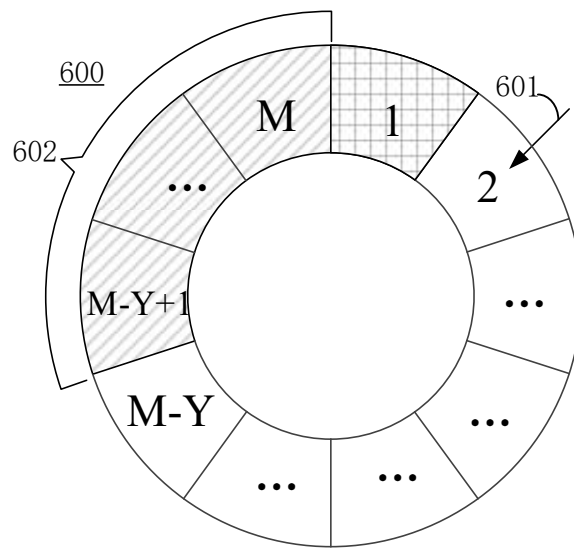


FIG. 8

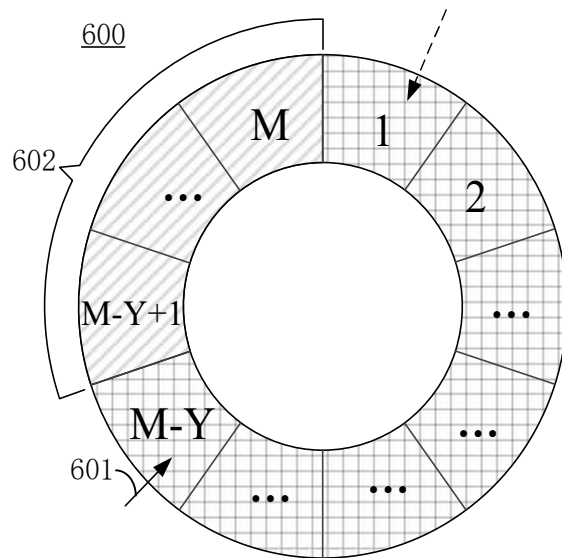


FIG. 9

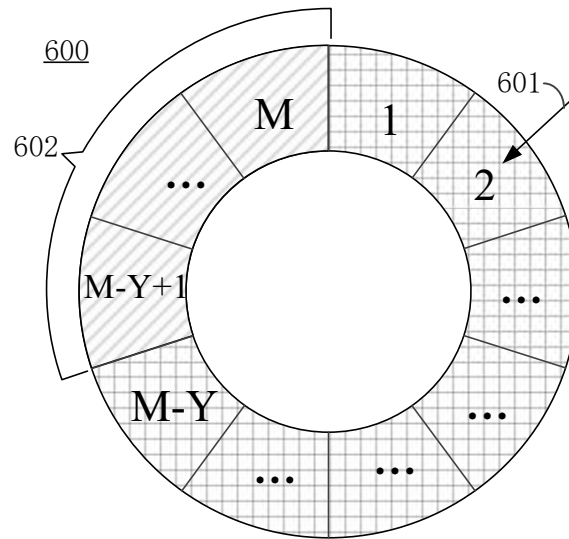


FIG. 10

Logical Block Management Table A		
Identity of First Logical Block	Identity of Second Logical Block	State
1	0	First State
2	0	First State
.....		
M	0	First State

FIG. 11

Logical Block Management Table A		
Identity of First Logical Block	Identity of Second Logical Block	State
1	0	First State
2	0	First State
.....		
M-Y+1	X	Third State
.....		
M	Z	Third State

FIG. 12

Logical Block Management Table A		
Identity of First Logical Block	Identity of Second Logical Block	State
1	1	Second State
2	0	First State
.....		
M-Y+1	X	Third State
.....		
M	Z	Third State

FIG. 13

Logical Block Management Table A		
Identity of First Logical Block	Identity of Second Logical Block	State
1	1	Second State
2	2	Second State
.....		
M-Y	M-Y	Second State
M-Y+1	X	Third State
.....		
M	Z	Third State

FIG. 14

Logical Block Management Table A		
Identity of First Logical Block	Identity of Second Logical Block	State
1	M-Y+1	Second State
2	2	Second State
.....		
M-Y	M-Y	Second State
M-Y+1	X	Third State
.....		
M	Z	Third State

FIG. 15

Logical Block Management Table B		
Identity of Second Logical Block	Identity of First Logical Block	State
1	0	First State
2	0	First State
.....		
N	0	First State

FIG. 16

Logical Block Management Table B		
Identity of Second Logical Block	Identity of First Logical Block	State
1	0	First State
2	0	First State
.....		
X	M-Y+1	Third State
.....		
Z	M	Third State
.....		
N	0	First State

FIG. 17

Logical Block Management Table B		
Identity of Second Logical Block	Identity of First Logical Block	State
1	1	Second State
2	0	First State
.....		
X	M-Y+1	Third State
.....		
Z	M	Third State
.....		
N	0	First State

FIG. 18

Logical Block Management Table B		
Identity of Second Logical Block	Identity of First Logical Block	State
1	1	Second State
2	2	Second State
.....		
0X5999	M-Y	Second State
N	0	First State

FIG. 19

Logical Block Management Table B		
Identity of Second Logical Block	Identity of First Logical Block	State
1	0X7FFF	First State
2	2	Second State
.....		
0X5999	M-Y	Second State
.....		
0X6E2D	1	Second State
.....		
N	0	First State

FIG. 20

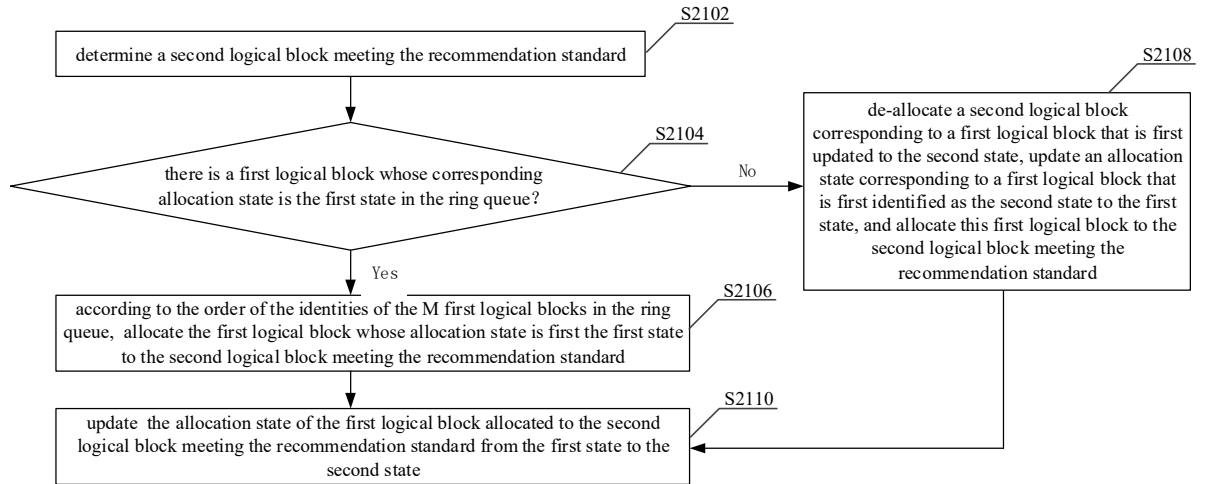


FIG. 21

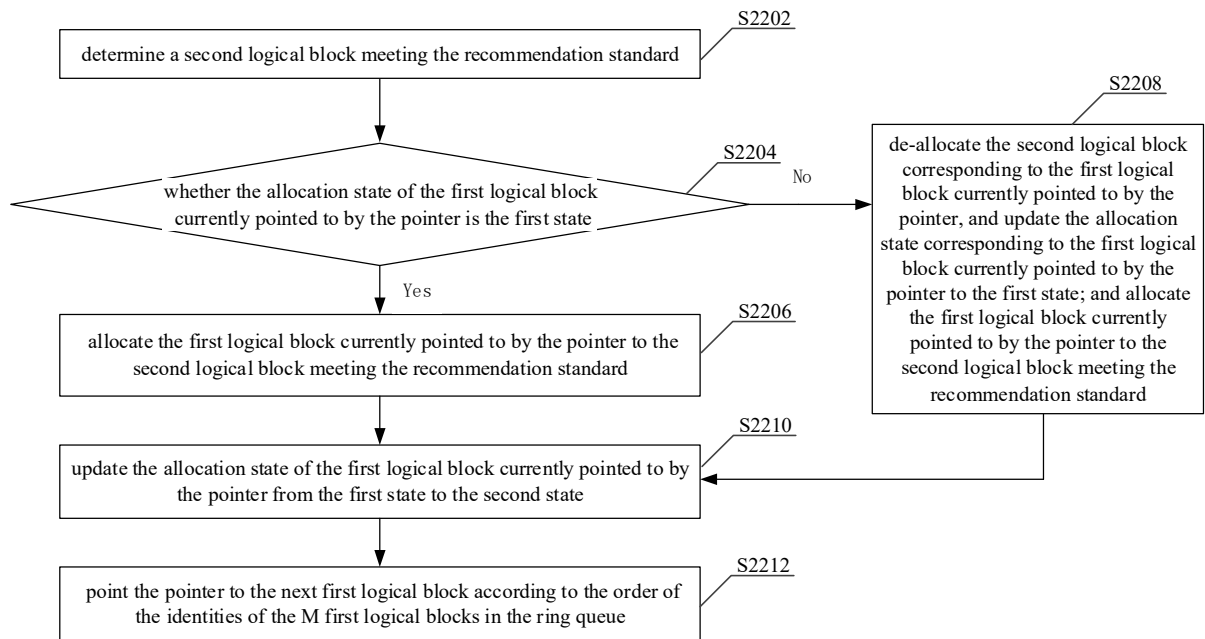


FIG. 22

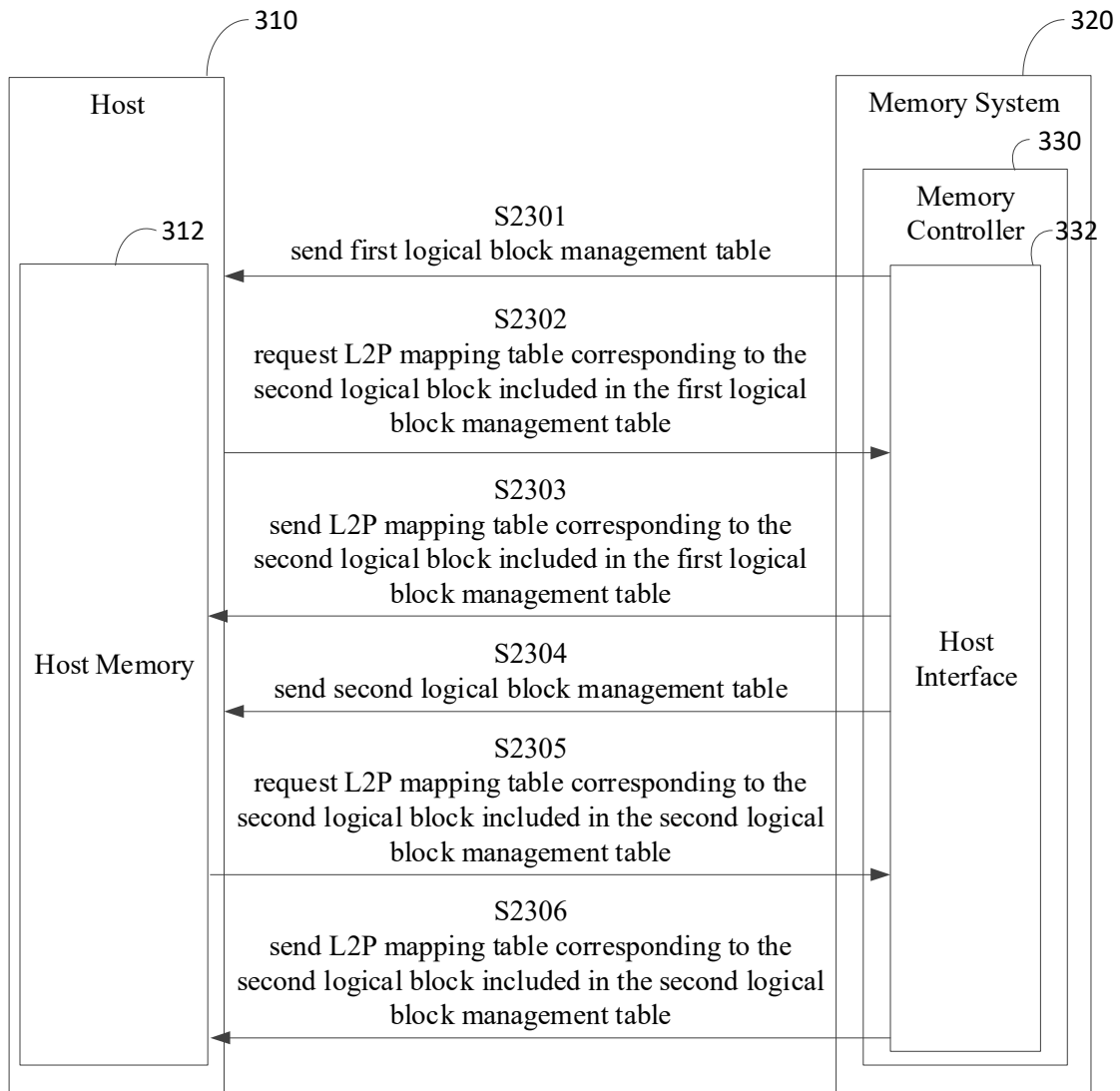


FIG. 23