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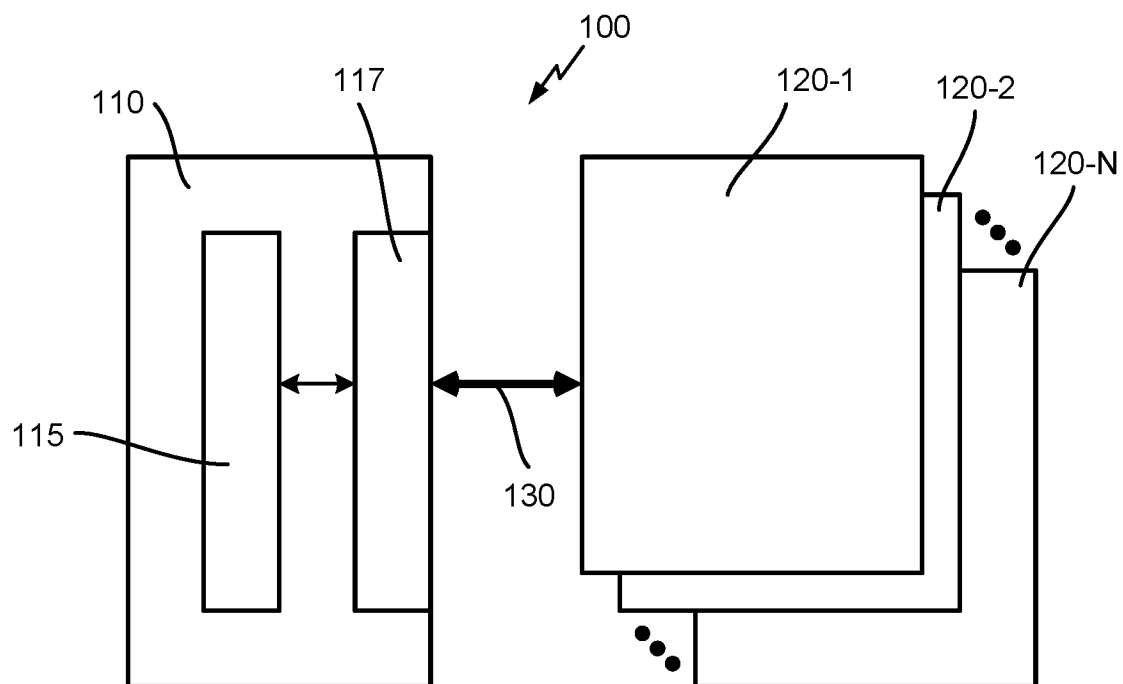


FIG. 1

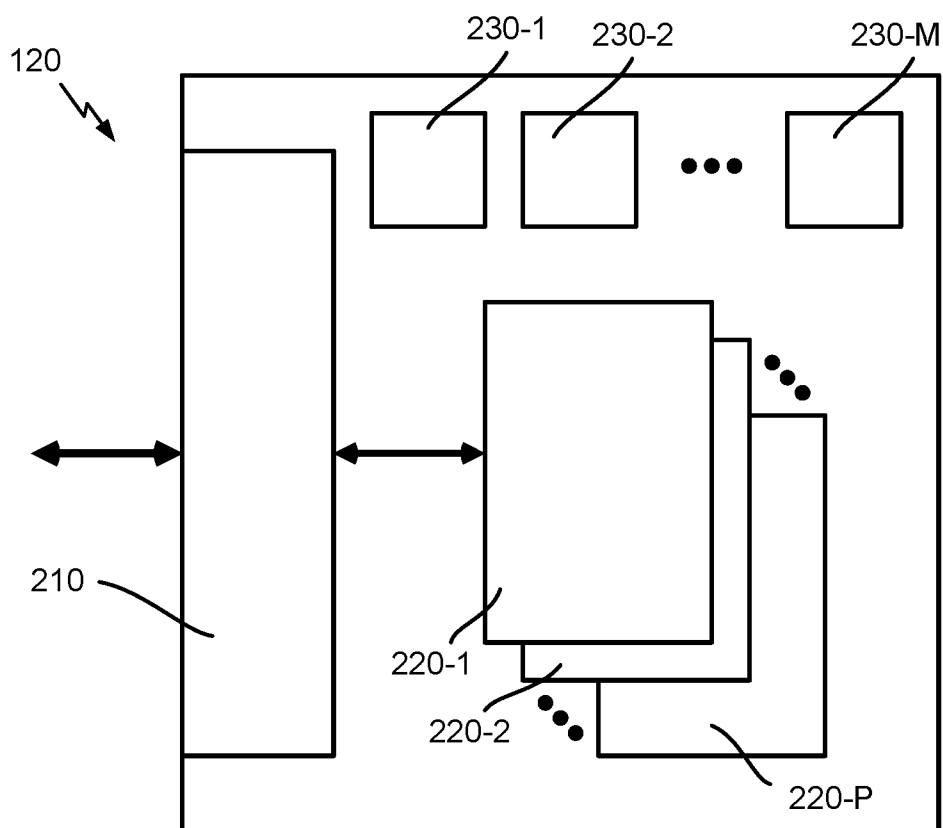


FIG. 2

BANK 0	BANK 1	BANK 2	BANK 3	BANK 4	BANK 5	BANK 6	BANK 7
Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7
Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6
Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5
Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4
Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3
Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2
Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1
Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0

FIG. 3

MRxx definition (OP: Operand)									
OP[7]	OP[6]	OP[5]	OP[4]	OP[3]	OP[2]	OP[1]	OP[0]		
Reserved for Future Use								PAR_EN	

Function	Register Type	Operand	Operation
PAR_EN (partial array refresh enable)	Write only	OP[1:0]	00: PAAR disabled, PASR disabled 01: PAAR disabled, PASR enabled 10: PAAR enabled, PASR disabled 11: PAAR enabled, PASR enabled

FIG. 4

OP[7]	OP[6]	OP[5]	OP[4]	OP[3]	OP[2]	OP[1]	OP[0]
Segment Mask							

Function	Register Type	Operand	Data
Segment Mask	Write only	OP[7:0]	0B: Segment Refresh Enable 1B: Segment Refresh Disable

FIG. 5A

OP[7]	OP[6]	OP[5]	OP[4]	OP[3]	OP[2]	OP[1]	OP[0]
Bank Mask							

Function	Register Type	Operand	Data
Bank Mask	Write only	OP[7:0]	0B: Bank Refresh Enable 1B: Bank Refresh Disable

FIG. 5B

BANK 0	BANK 1	BANK 2	BANK 3	BANK 4	BANK 5	BANK 6	BANK 7
Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7
Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6
Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5
Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4
Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3
Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2
Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1
Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0

FIG. 6A

BANK 0	BANK 1	BANK 2	BANK 3	BANK 4	BANK 5	BANK 6	BANK 7
Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7
Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6
Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5
Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4
Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3
Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2
Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1
Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0

FIG. 6B

BANK 0	BANK 1	BANK 2	BANK 3	BANK 4	BANK 5	BANK 6	BANK 7
Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7
Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6
Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5
Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4
Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3
Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2
Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1
Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0

FIG. 6C

BANK 0	BANK 1	BANK 2	BANK 3	BANK 4	BANK 5	BANK 6	BANK 7
Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7	Segment 7
Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6	Segment 6
Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5	Segment 5
Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4	Segment 4
Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3	Segment 3
Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2	Segment 2
Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1	Segment 1
Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0	Segment 0

FIG. 6D

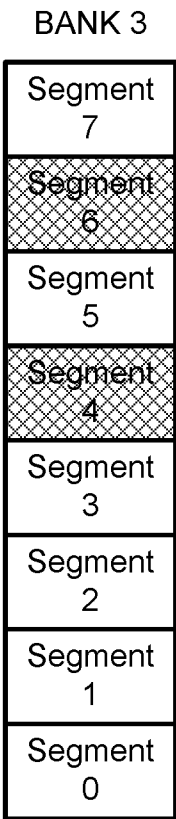


FIG. 7A

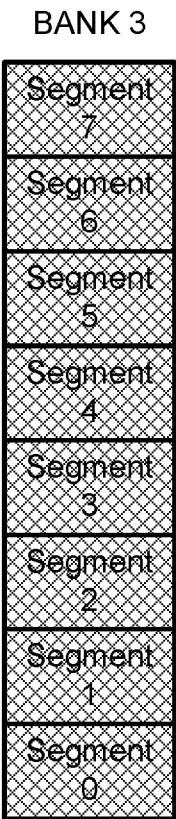


FIG. 7B

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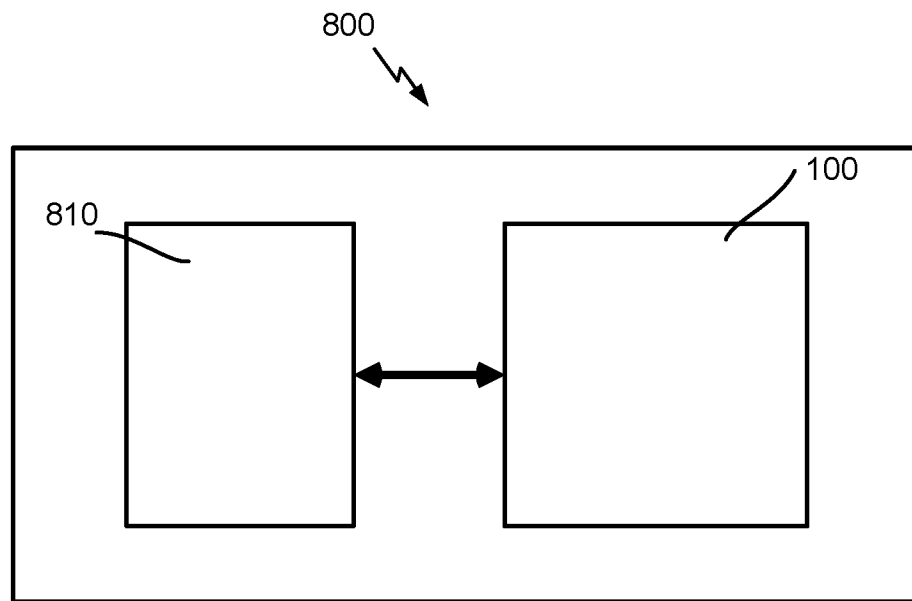


FIG. 8A

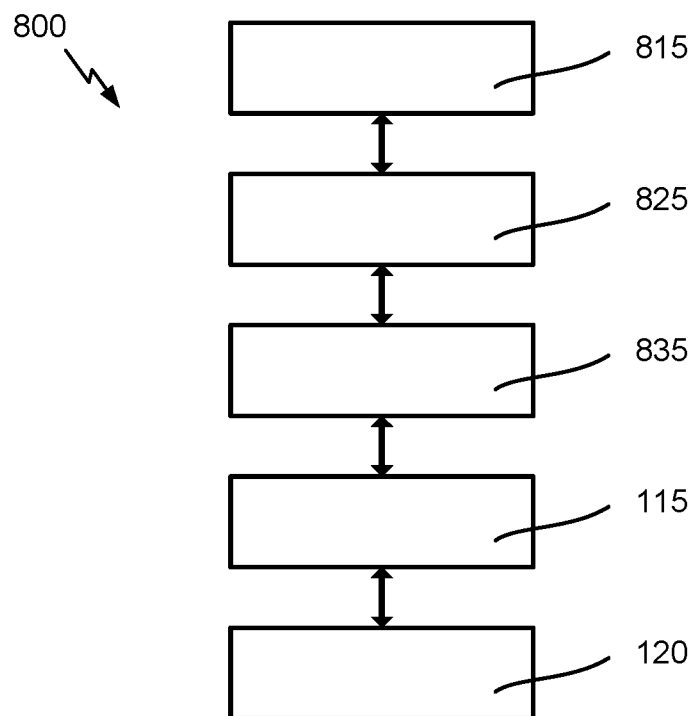


FIG. 8B

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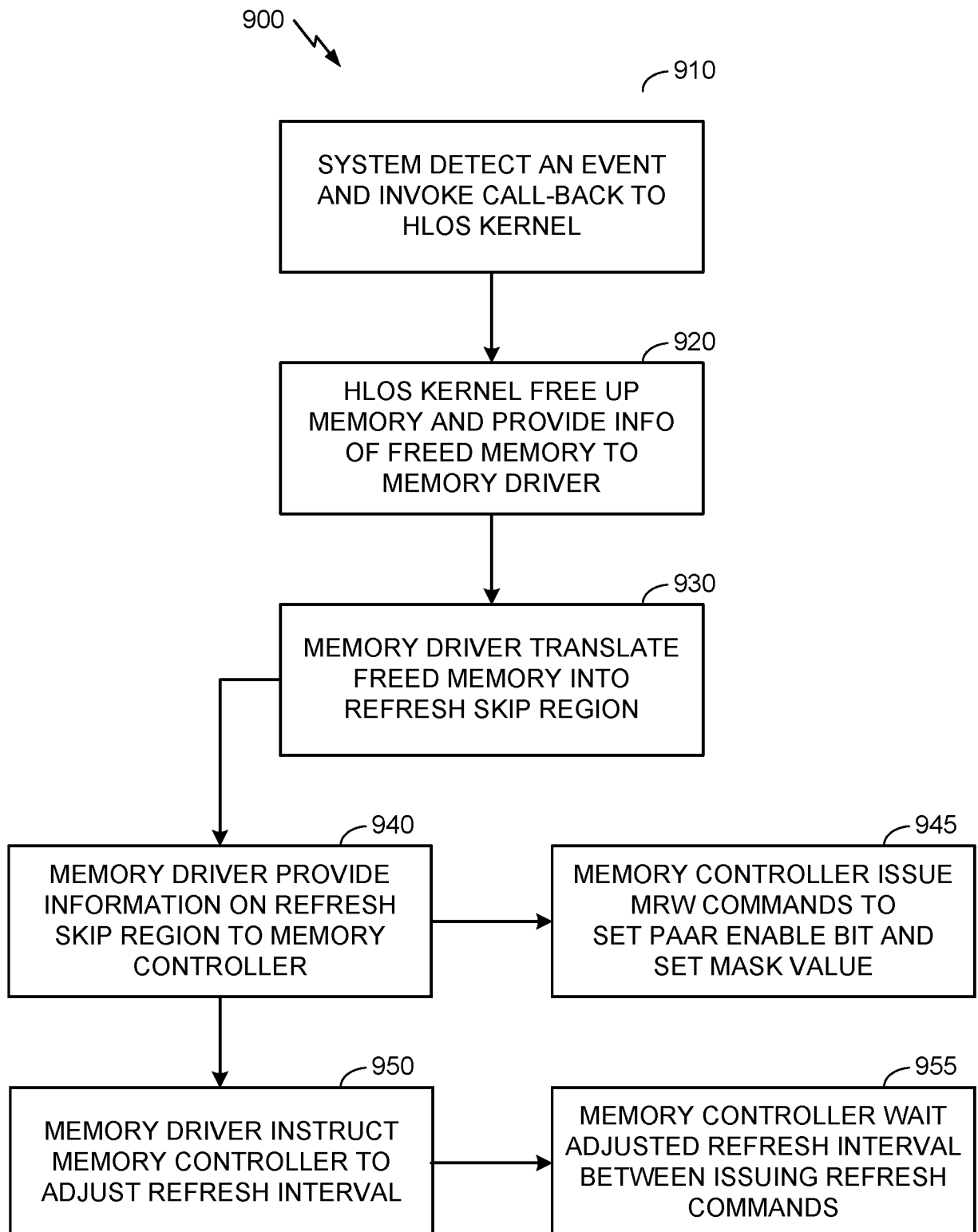


FIG. 9

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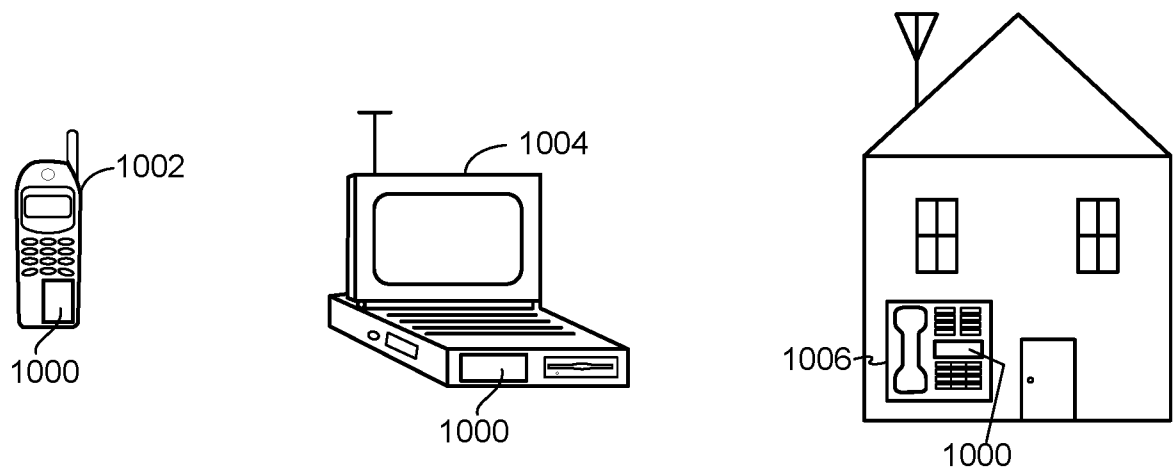


FIG. 10