

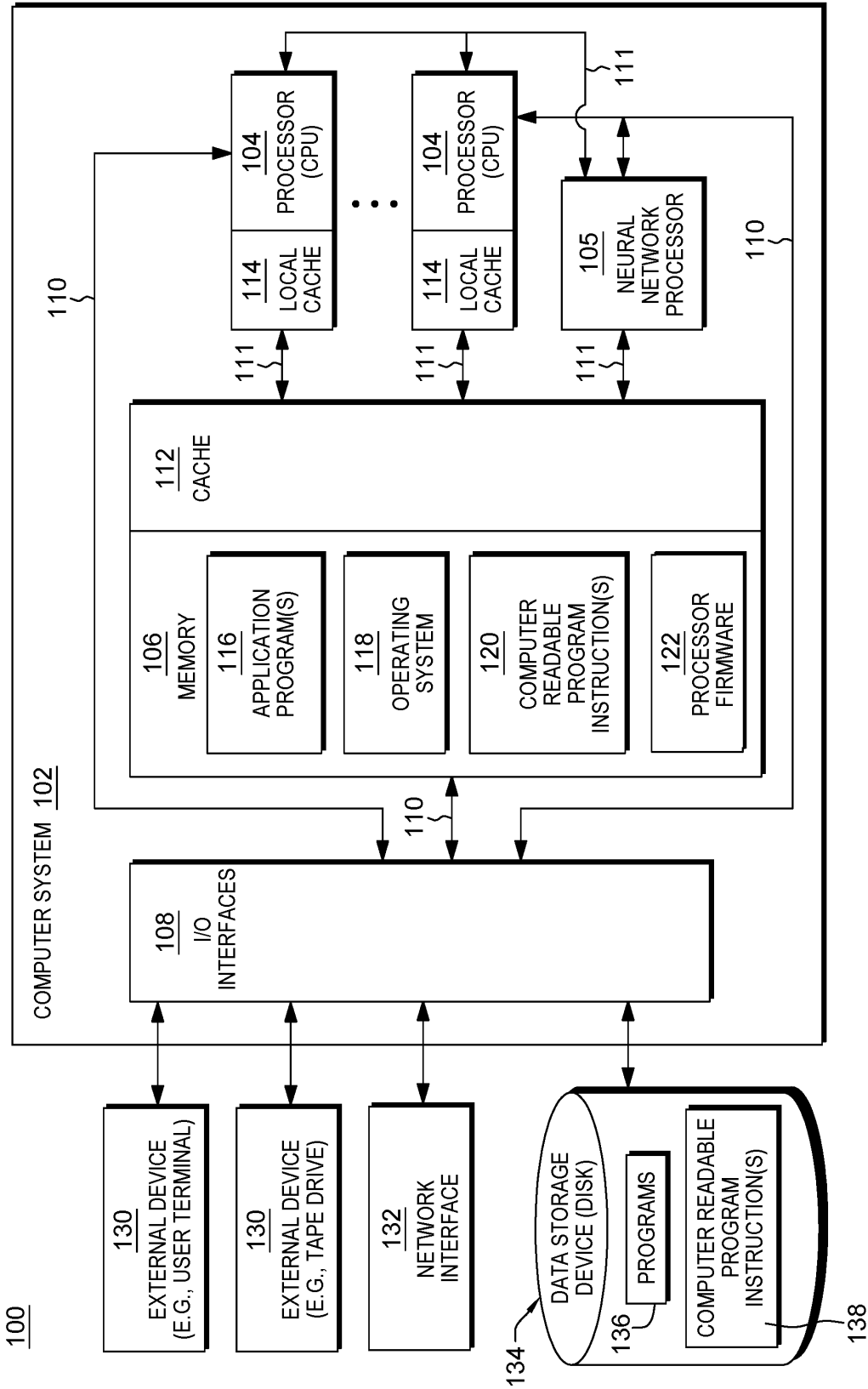


FIG. 1A

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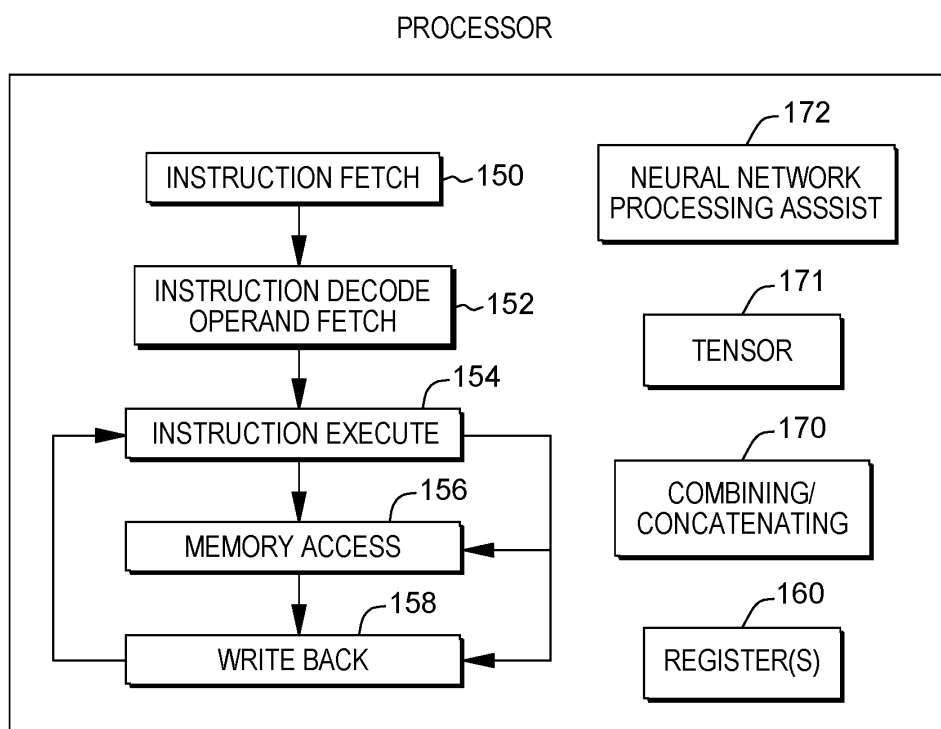
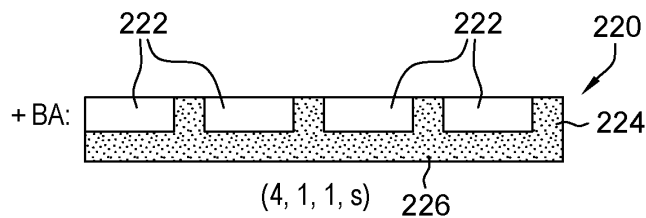
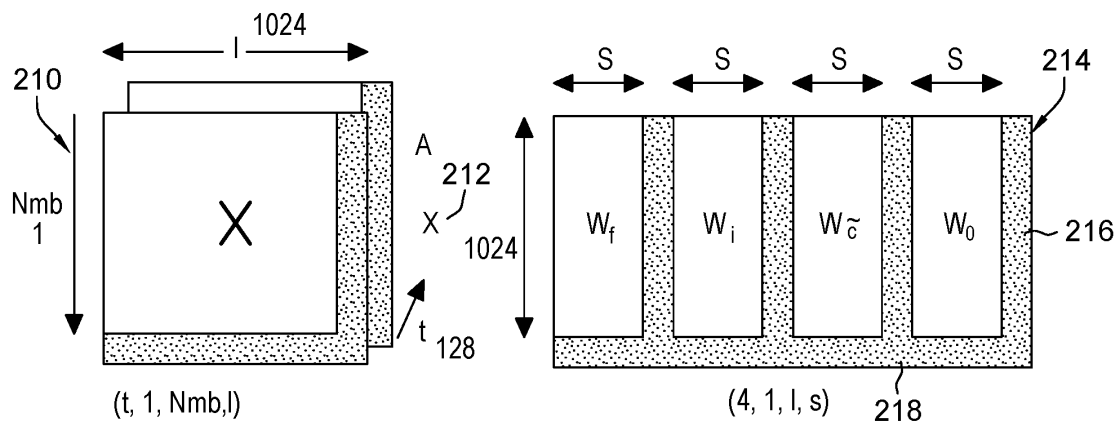
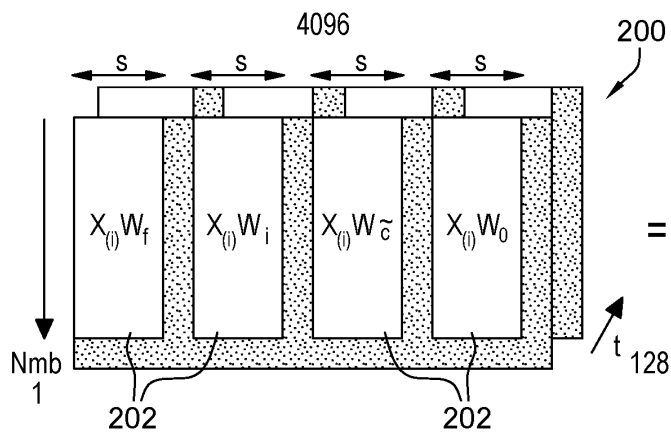


FIG. 1B



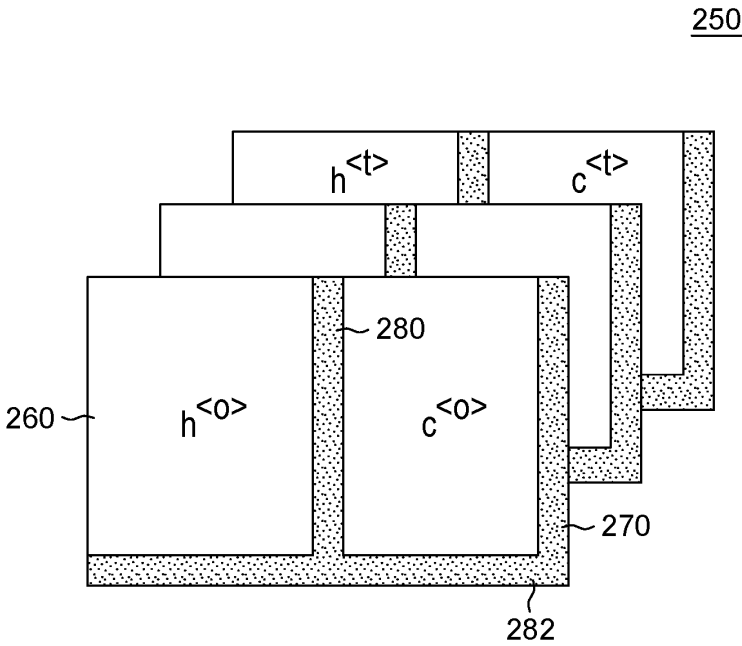


FIG. 2D

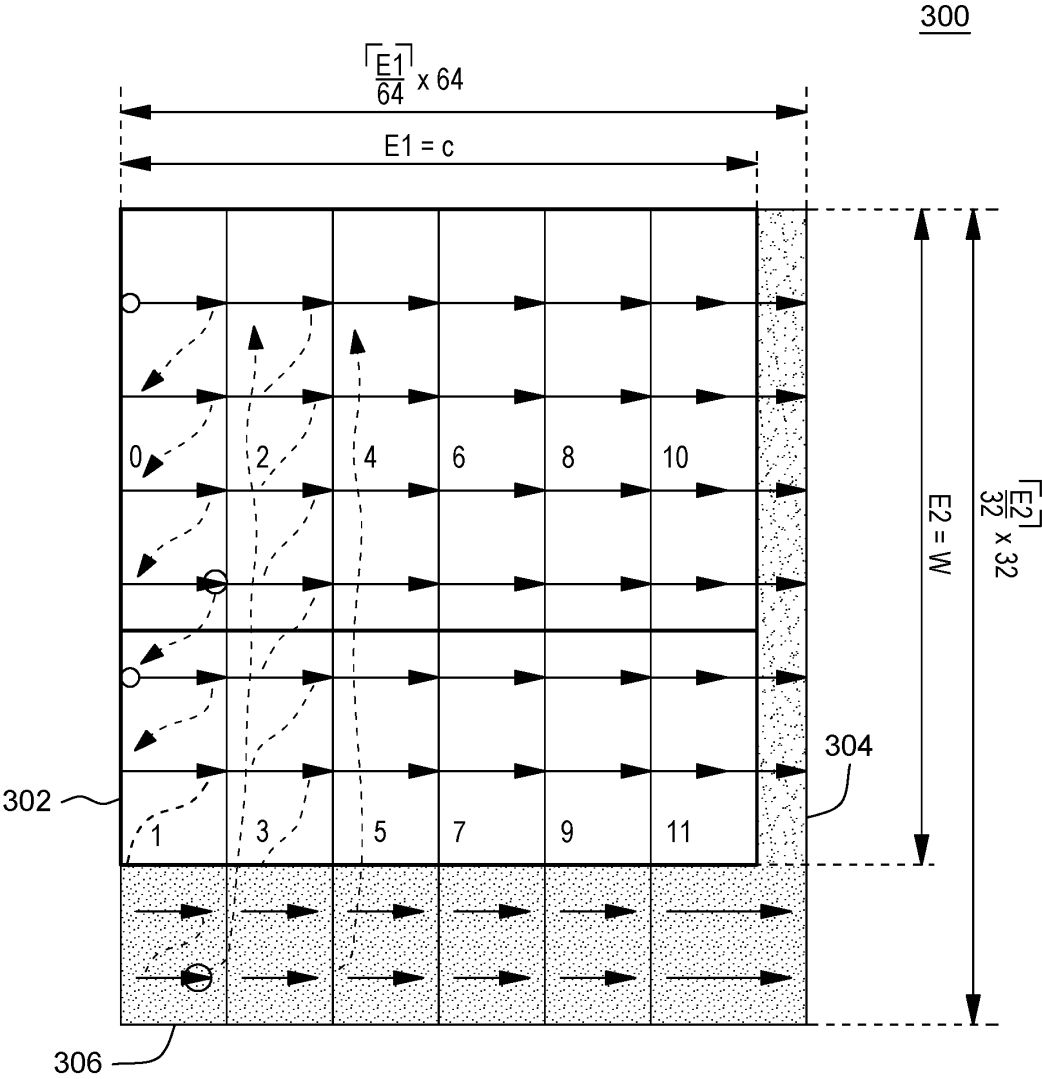


FIG. 3A

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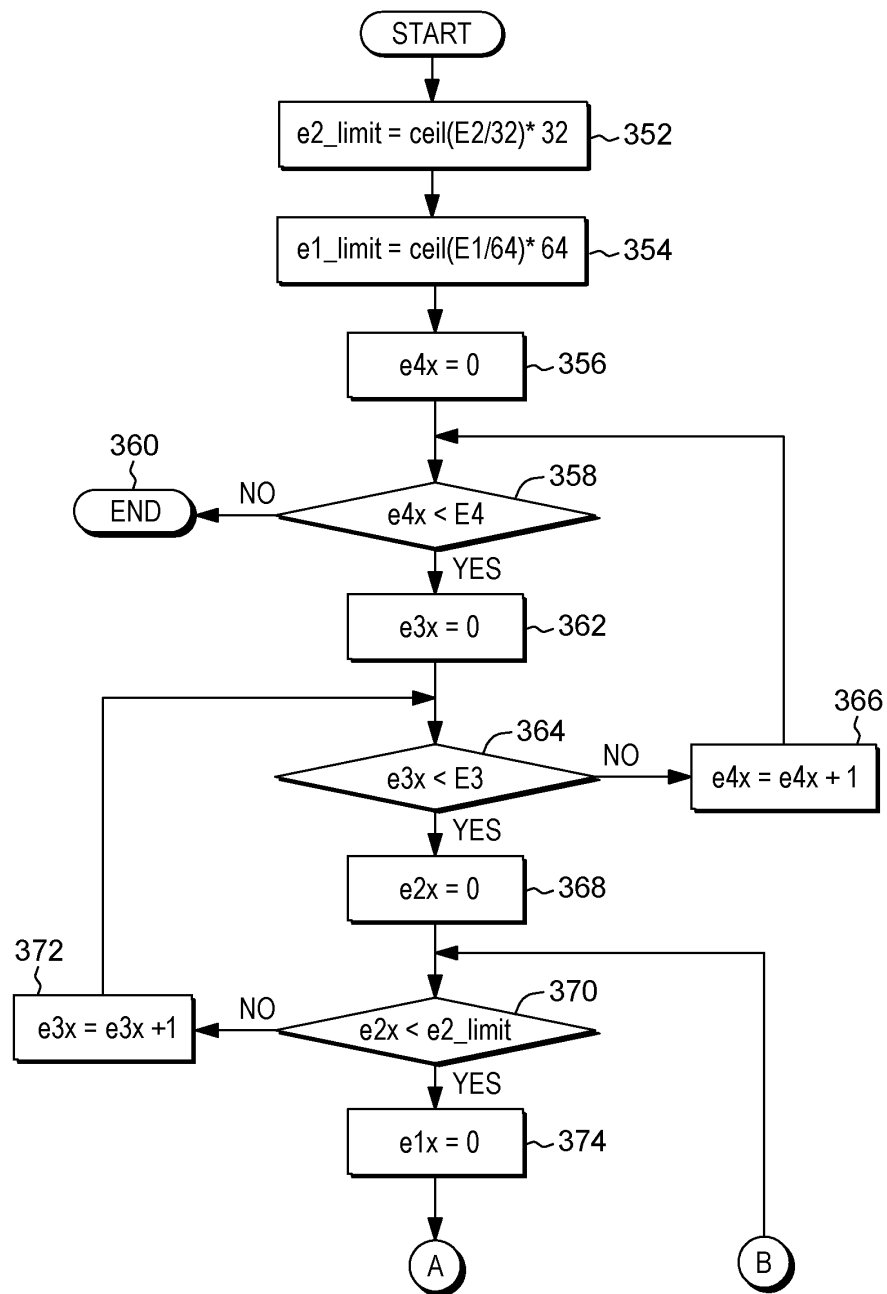


FIG. 3B

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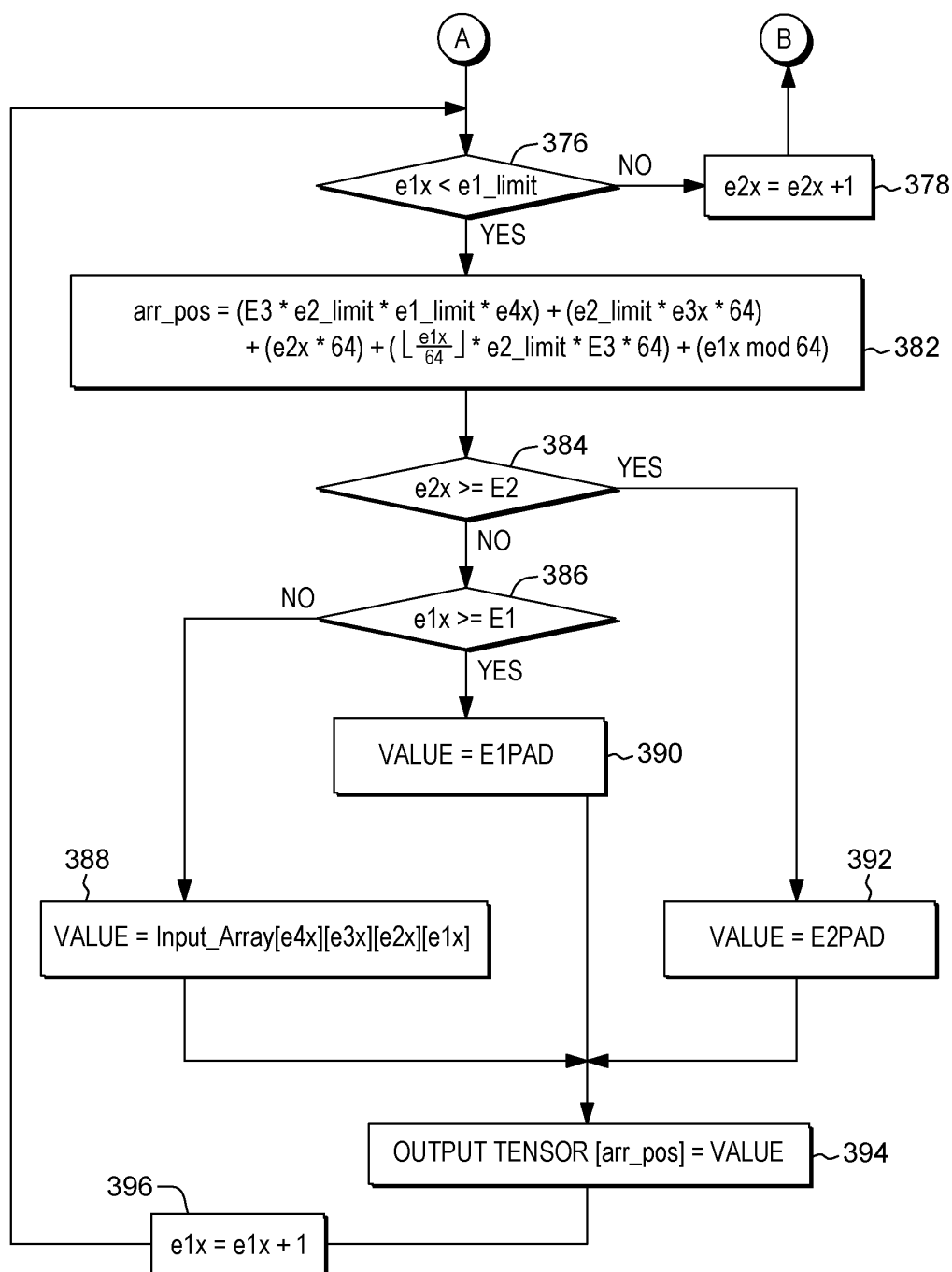


FIG. 3C

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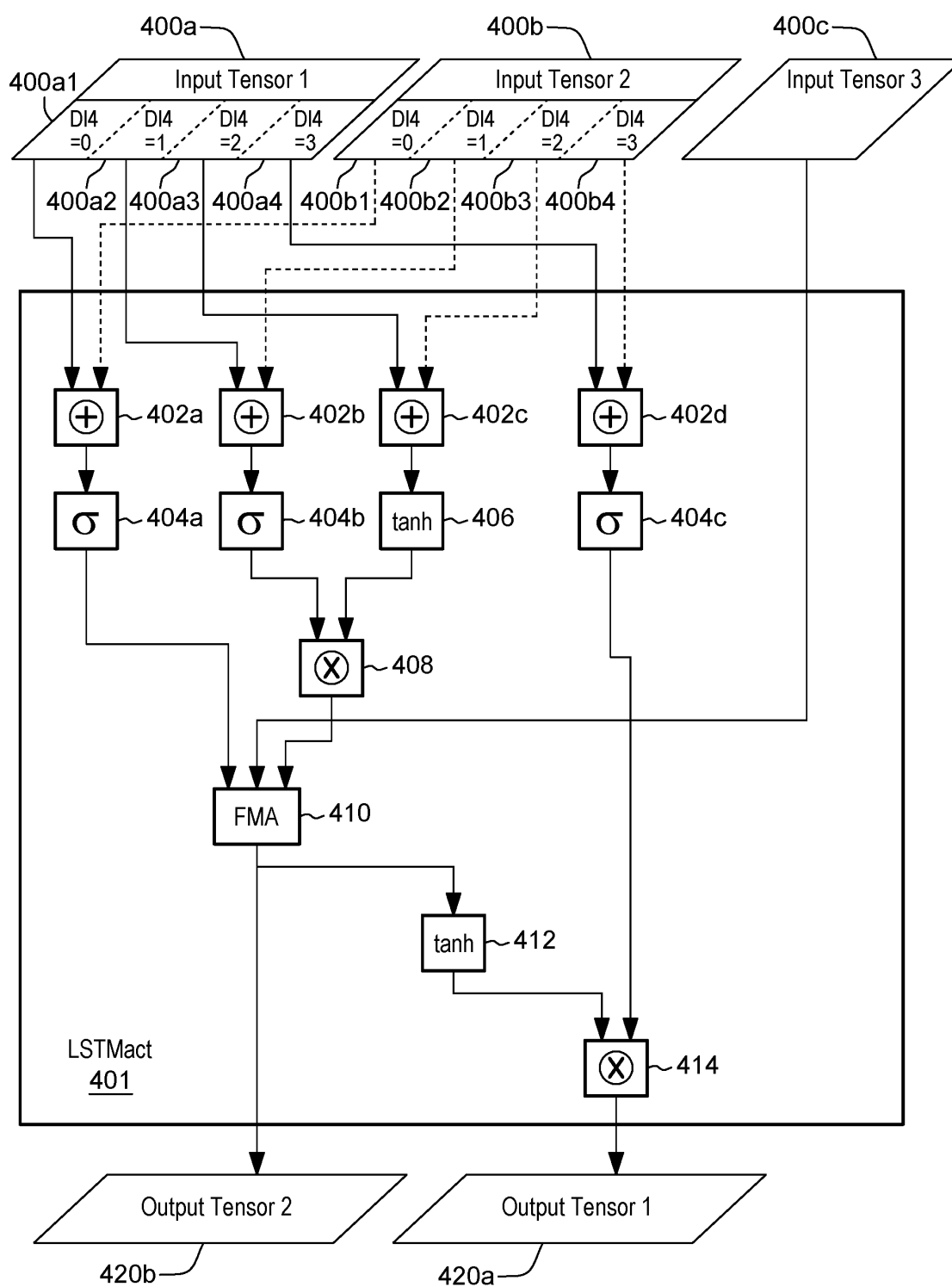


FIG. 4A

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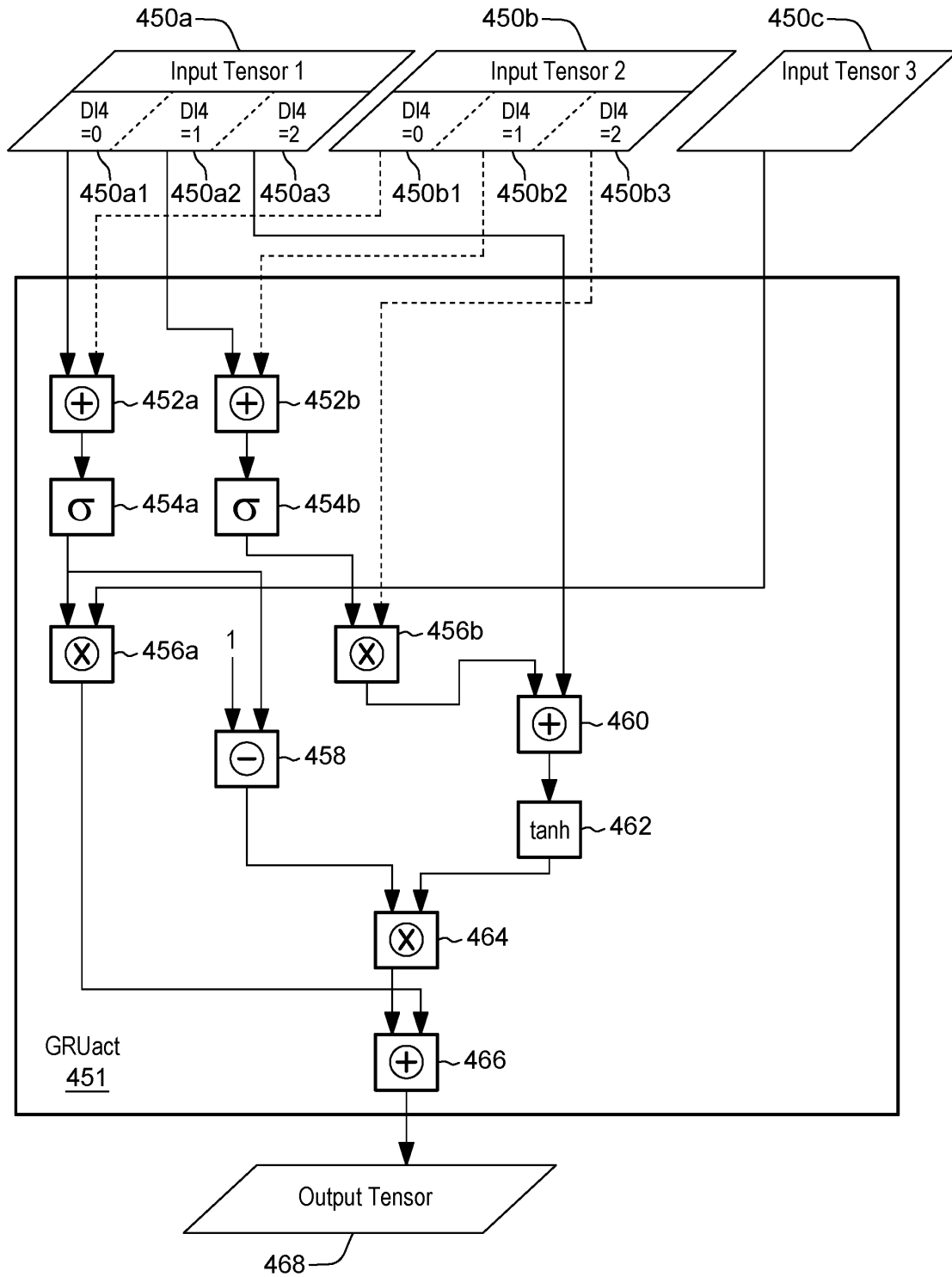


FIG. 4B

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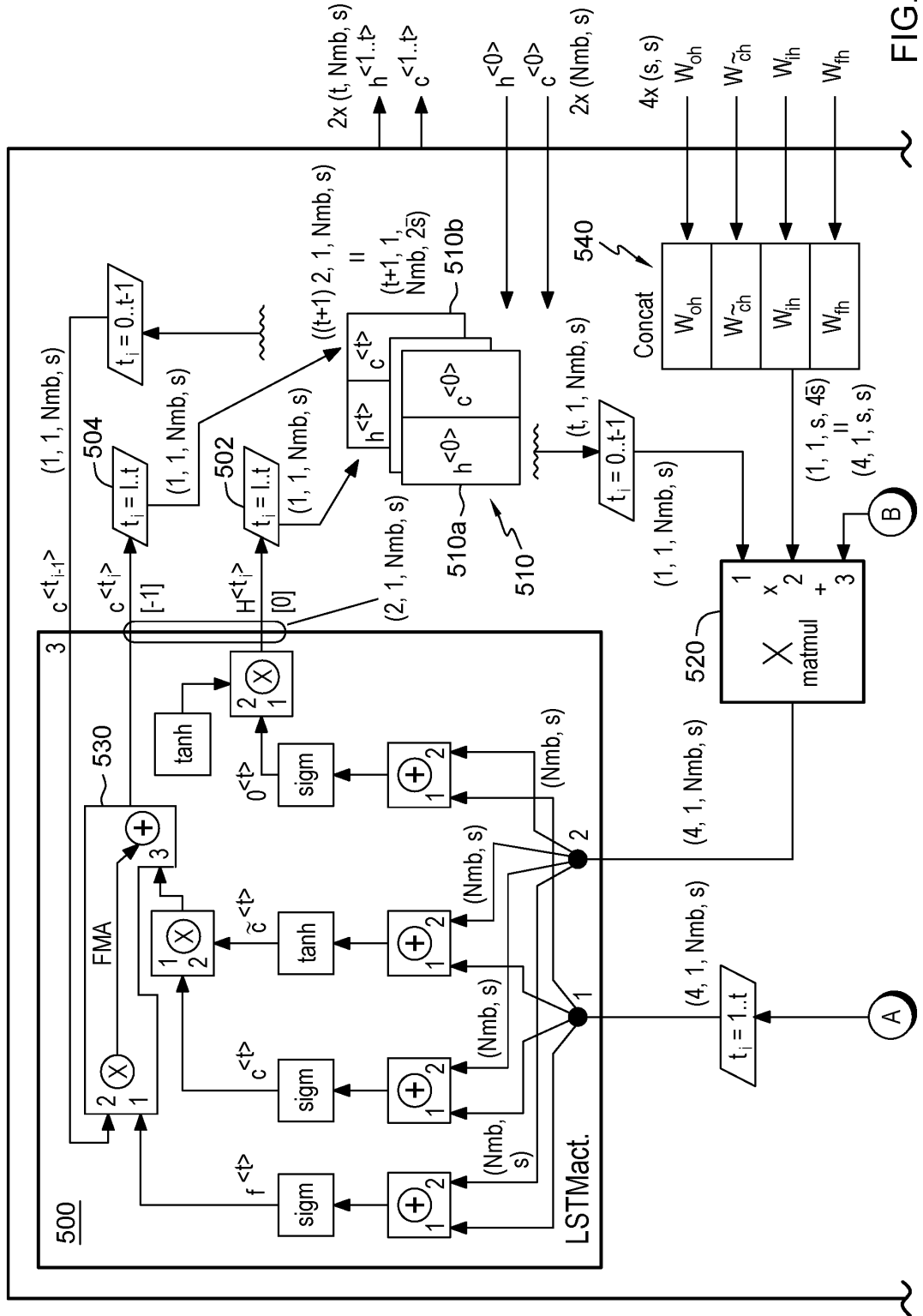


FIG. 5A

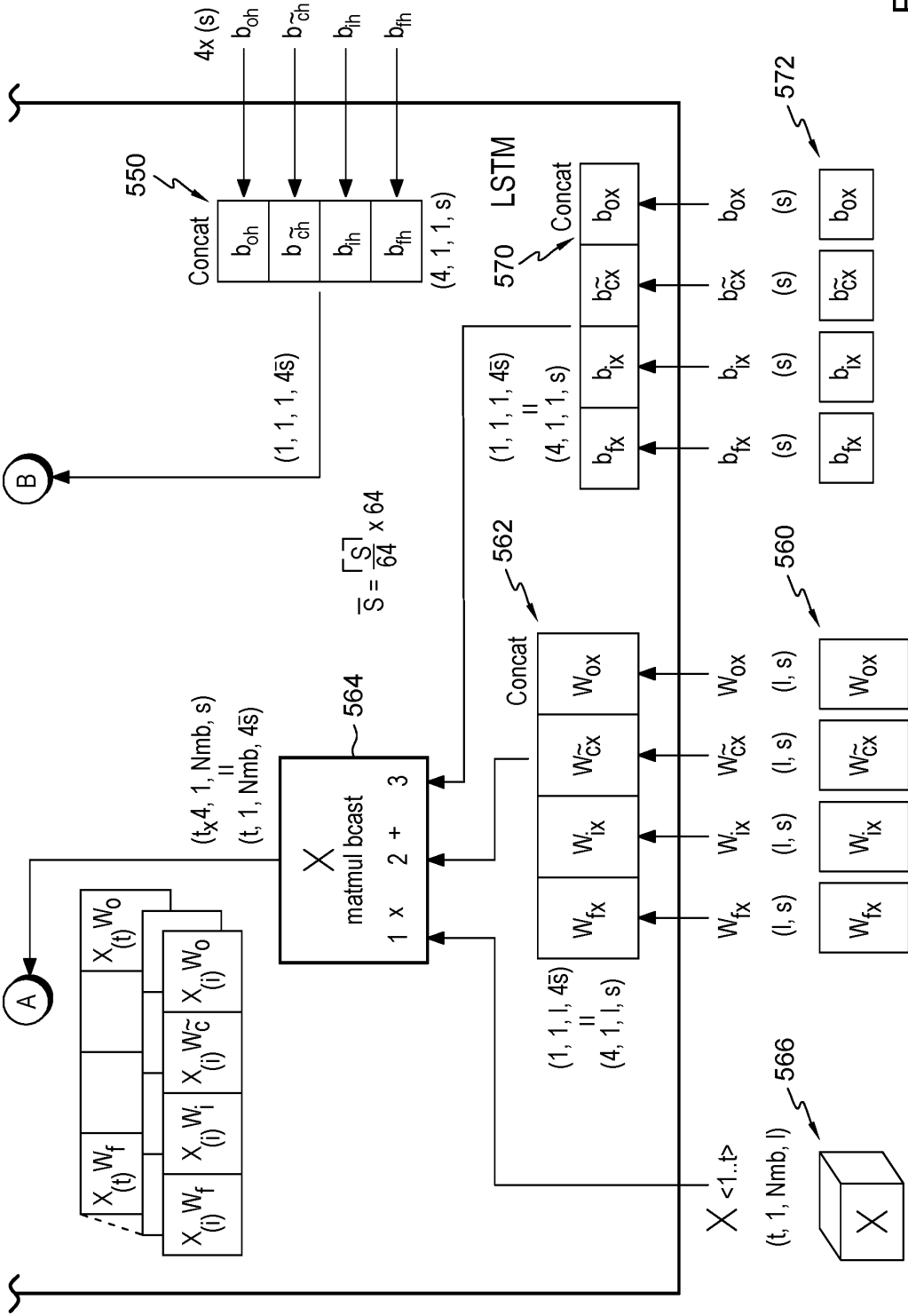


FIG. 5B

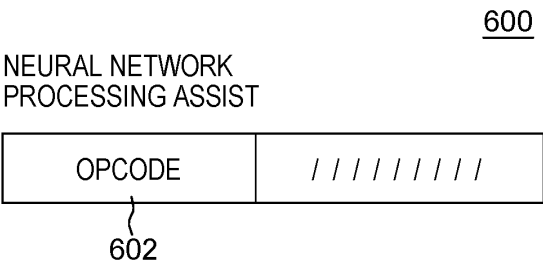


FIG. 6A

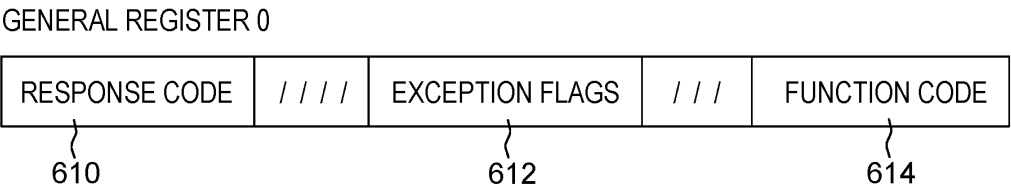


FIG. 6B

CODE (DEC)	CODE (HEX)	FUNCTION	PARAMETER BLOCK SIZE (BYTES)
0	0	NNPA - QAF	256
16	10	NNPA - ADD	4096
17	11	NNPA - SUB	4096
18	12	NNPA - MUL	4096
19	13	NNPA - DIV	4096
20	14	NNPA - MIN	4096
21	15	NNPA - MAX	4096
32	20	NNPA - LOG	4096
33	21	NNPA - EXP	4096
49	31	NNPA - RELU	4096
50	32	NNPA - TANH	4096
51	33	NNPA - SIGMOID	4096
52	34	NNPA - SOFTMAX	4096
64	40	NNPA - BATCHNORM	4096
80	50	NNPA - MAXPOOL2D	4096
81	51	NNPA - AVGPOOL2D	4096
96	60	NNPA - LSTMACT	4096
97	61	NNPA - GRUACT	4096
112	70	NNPA - CONVOLUTION	4096
113	71	NNPA - MATMUL-OP	4096
114	72	NNPA - MATMUL-OP-BCAST23	4096

FIG. 6C

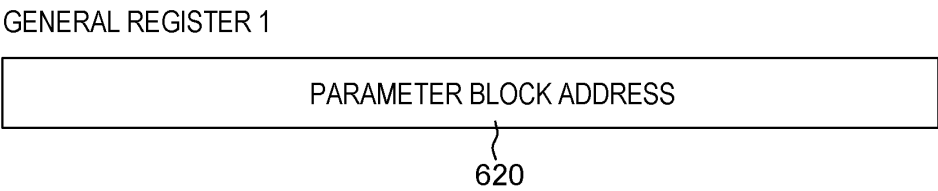


FIG. 6D

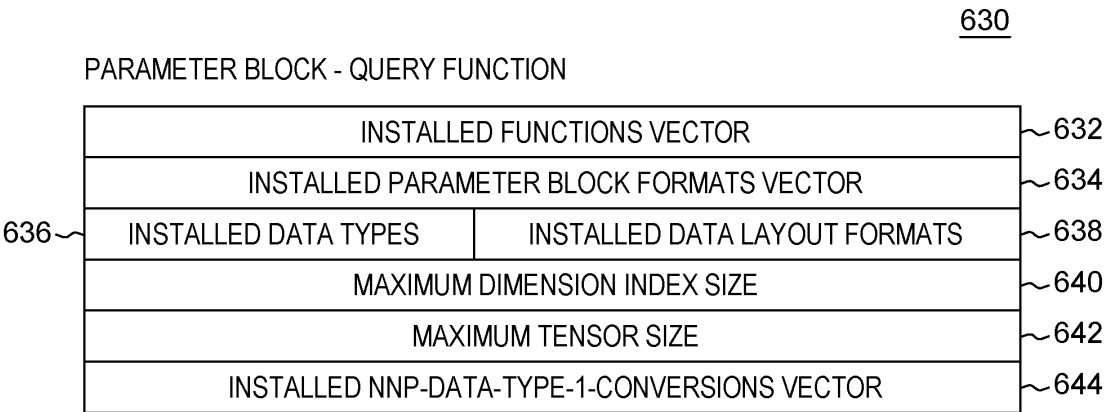


FIG. 6E

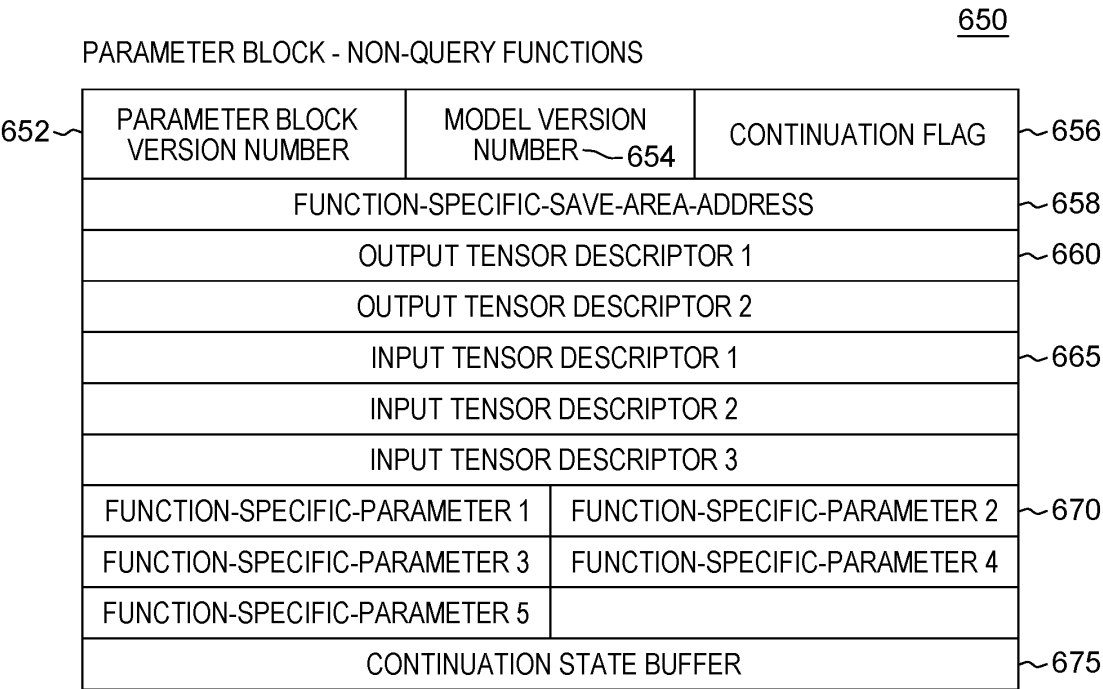


FIG. 6F

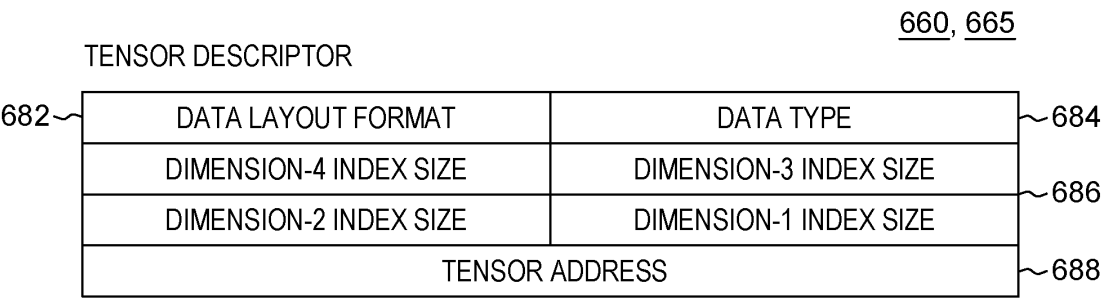


FIG. 6G

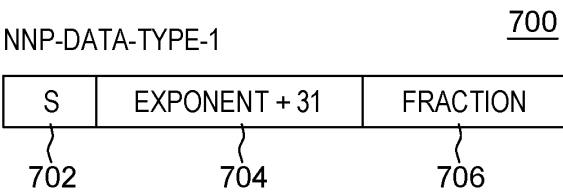
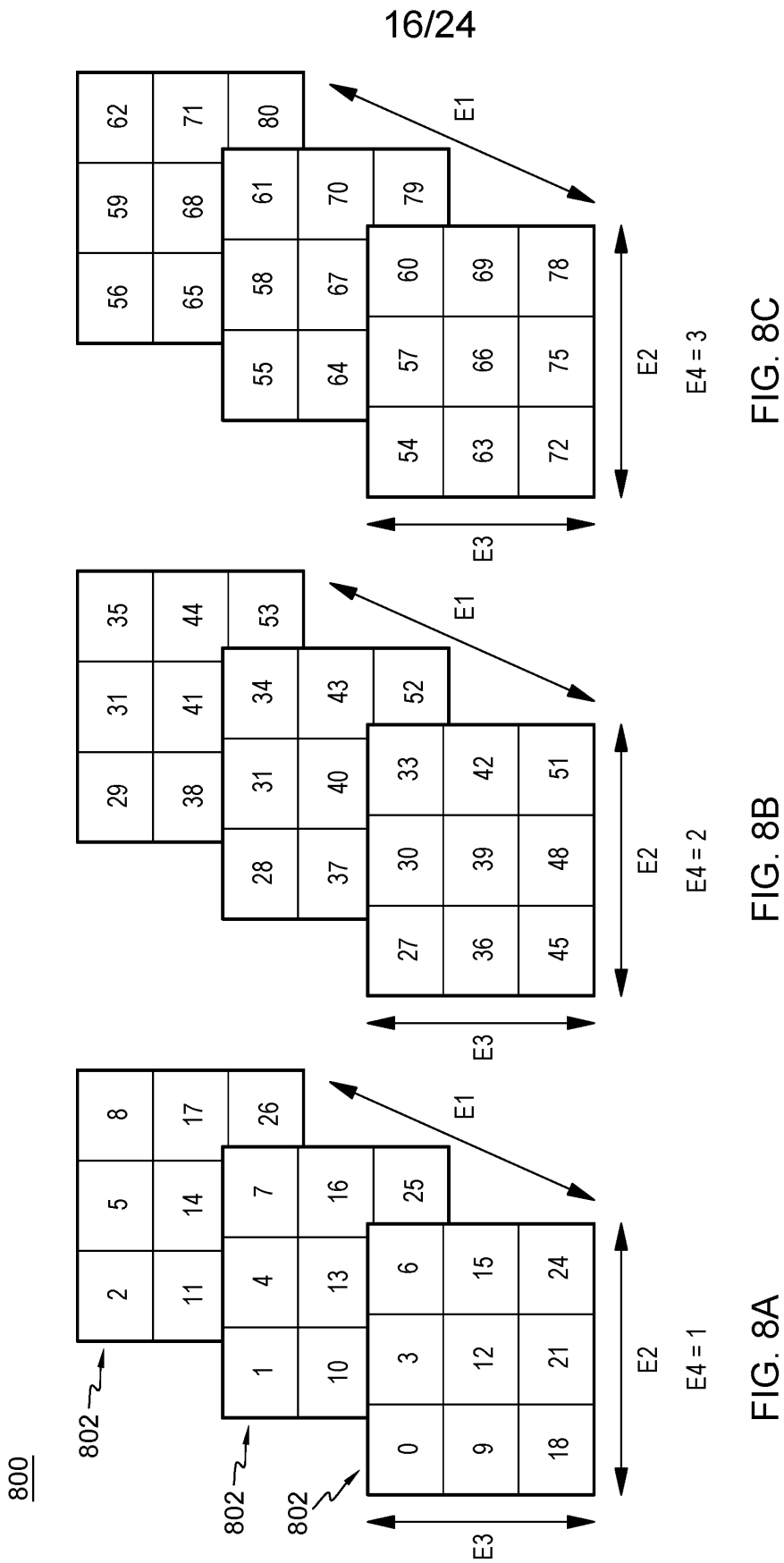


FIG. 7



The diagram illustrates a memory layout across eight pages, each containing a table of indices. The pages are labeled PAGE 0 through PAGE 7. The tables are structured as follows:

- PAGE 0:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	0	1	2
1	3	4	5
2	6	7	8
3-31	PAD	PAD	PAD
- PAGE 1:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	9	10	11
1	12	13	14
2	15	16	17
3-31	PAD	PAD	PAD
- PAGE 2:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	18	19	20
1	21	22	23
2	24	25	26
3-31	PAD	PAD	PAD
- PAGE 3:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	27	28	29
1	30	31	32
2	33	34	35
3-31	PAD	PAD	PAD
- PAGE 4:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	36	37	38
1	39	40	41
2	42	43	44
3-31	PAD	PAD	PAD
- PAGE 5:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	45	46	47
1	48	49	50
2	51	52	53
3-31	PAD	PAD	PAD
- PAGE 6:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	54	55	56
1	57	58	59
2	60	61	62
3-31	PAD	PAD	PAD
- PAGE 7:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	63	64	65
1	66	67	68
2	69	70	71
3-31	PAD	PAD	PAD
- PAGE 8:**

e2_page_idx	e1_page_idx		
0	1	2	3 to 63
0	72	73	74
1	75	76	77
2	78	79	80
3-31	PAD	PAD	PAD

Annotations and Equations:

- 900:** Points to the e2_page_idx column in PAGE 0.
- 902:** Points to the e1_page_idx column in PAGE 0.
- 904:** Points to the e1_page_idx column in PAGE 0.
- 906:** Points to the e1_page_idx column in PAGE 3.
- 908:** Points to the e1_page_idx column in PAGE 1.
- E4 = 1:** Associated with PAGE 0.
- E4 = 2:** Associated with PAGE 3.
- E4 = 3:** Associated with PAGE 6.

A large bracket at the bottom groups all eight pages.

FIG. 9A

FIG. 9B

FIG. 9C

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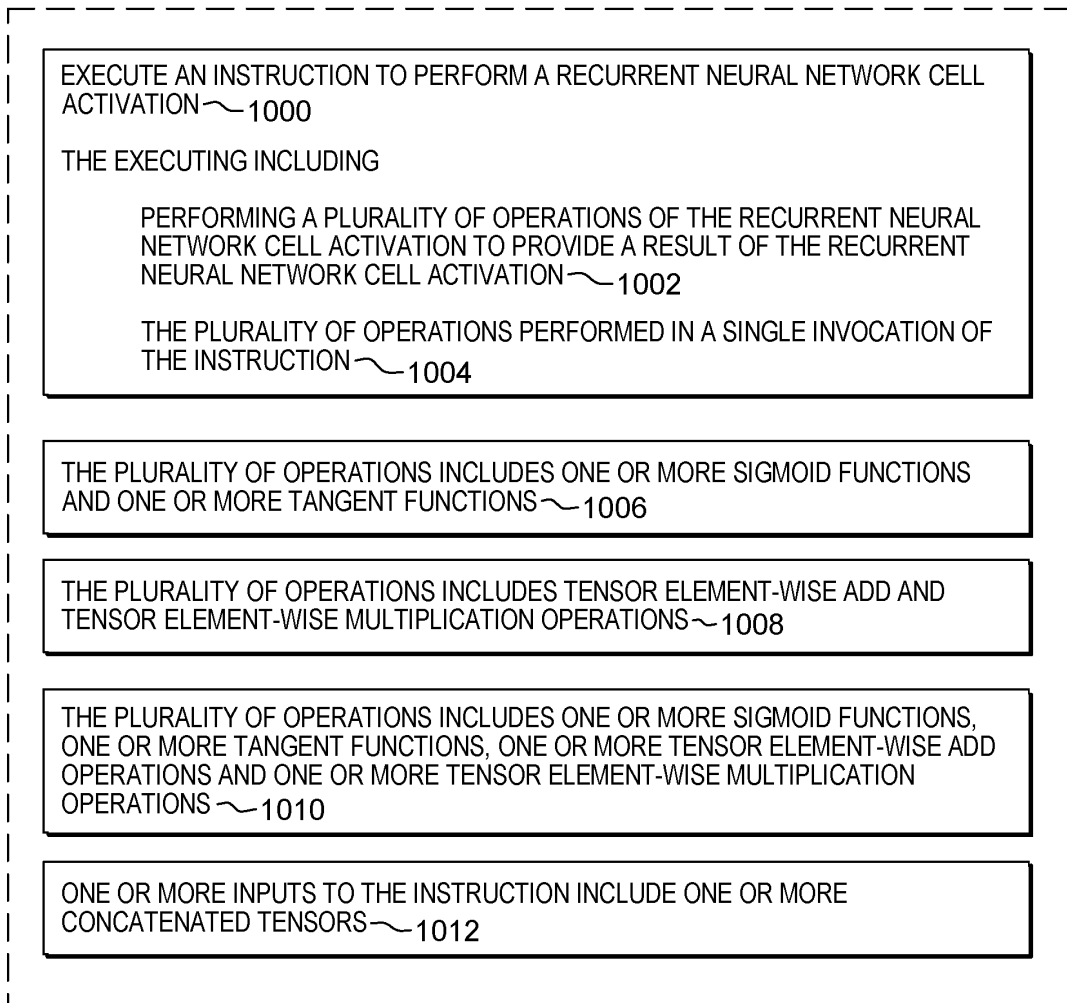


FIG. 10A

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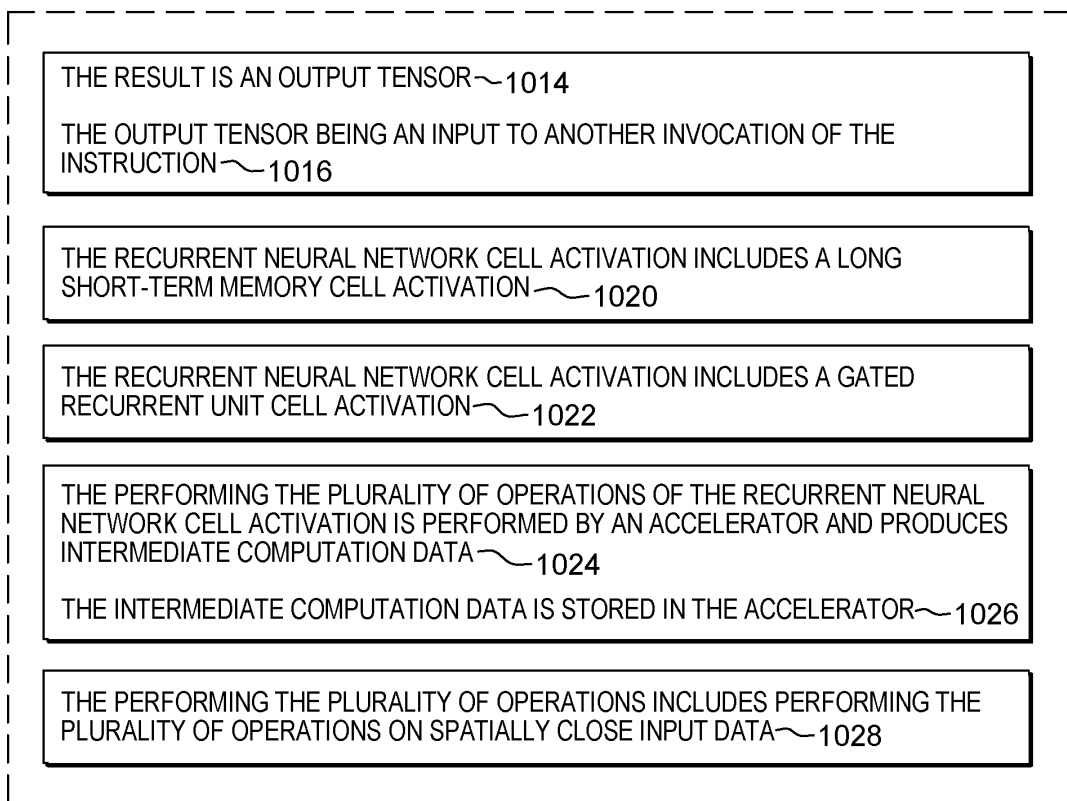


FIG. 10B

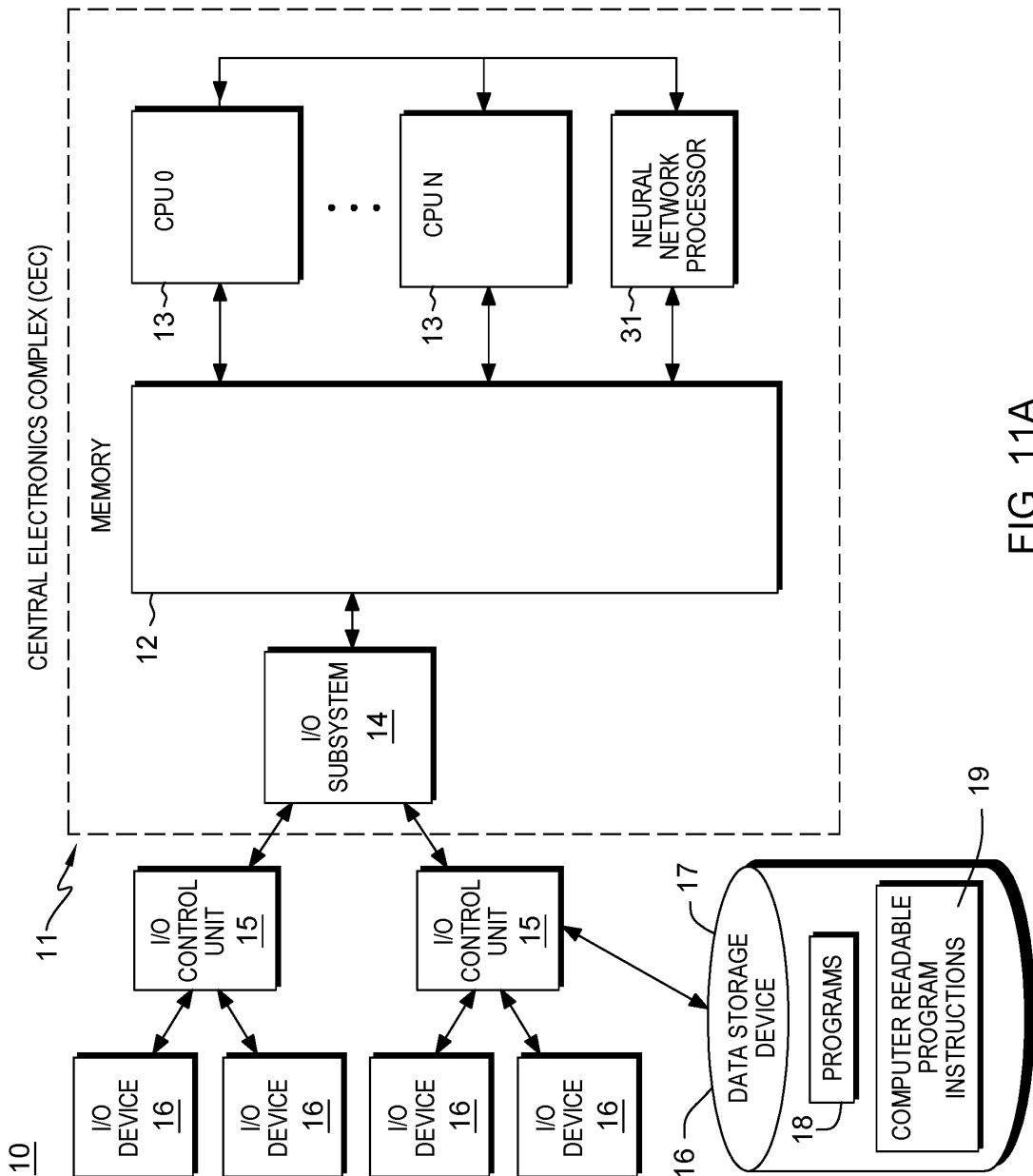


FIG. 11A

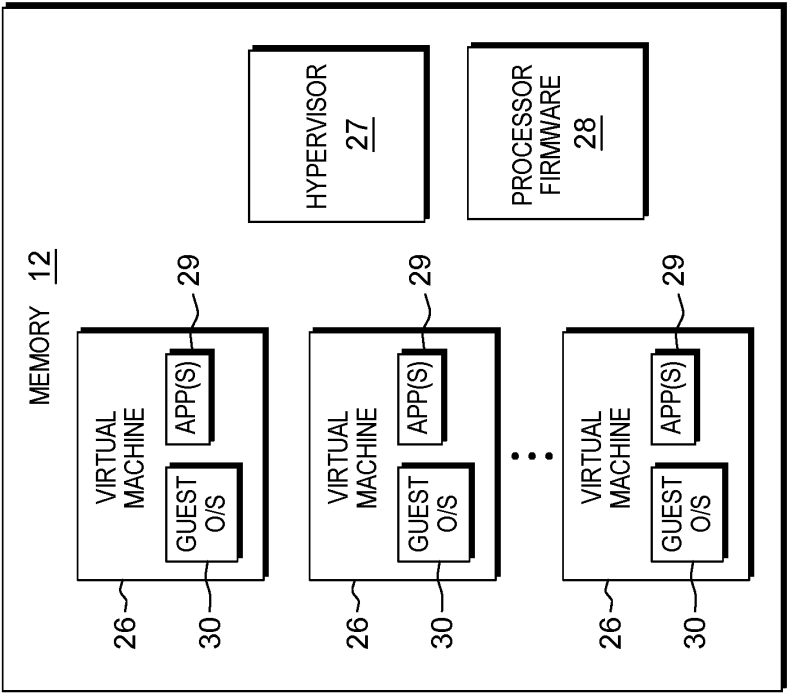


FIG. 11C

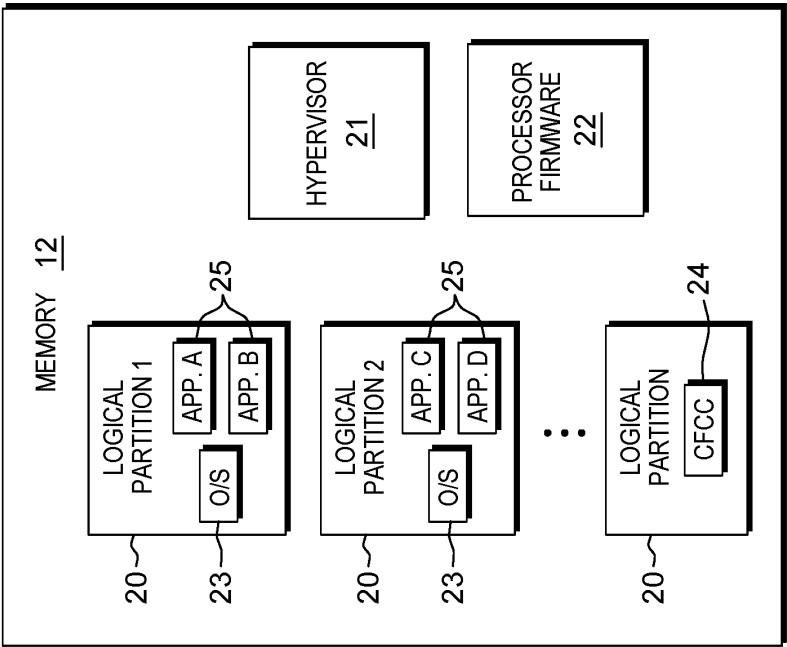


FIG. 11B

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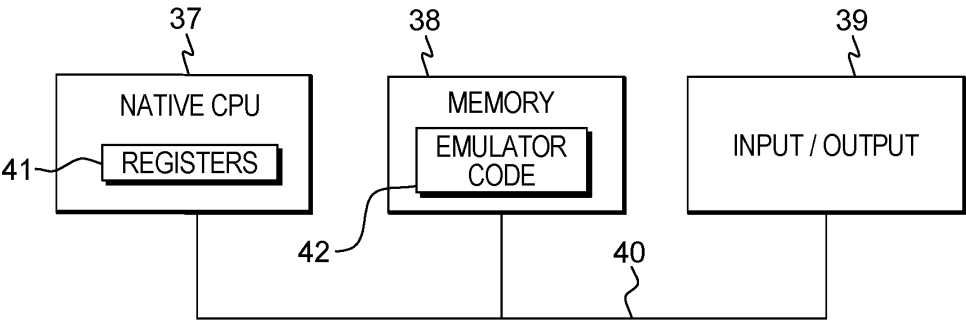


FIG. 12A

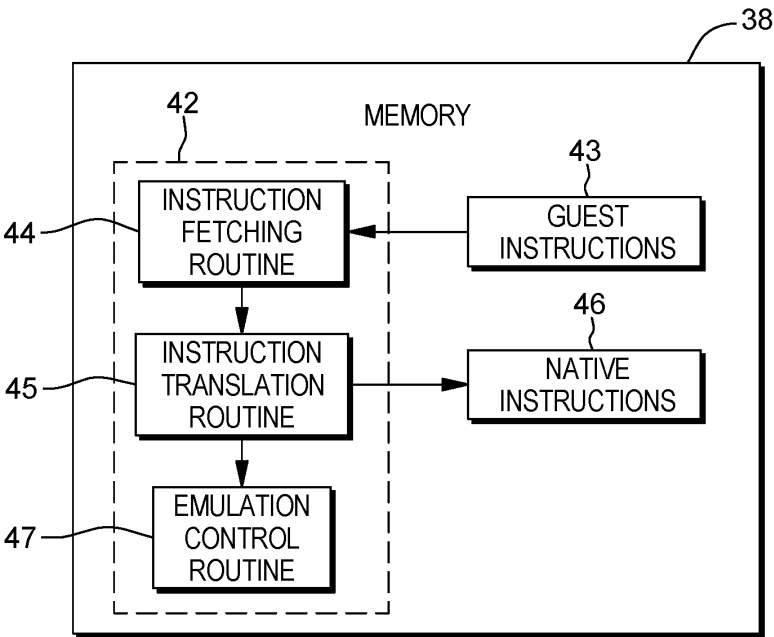


FIG. 12B

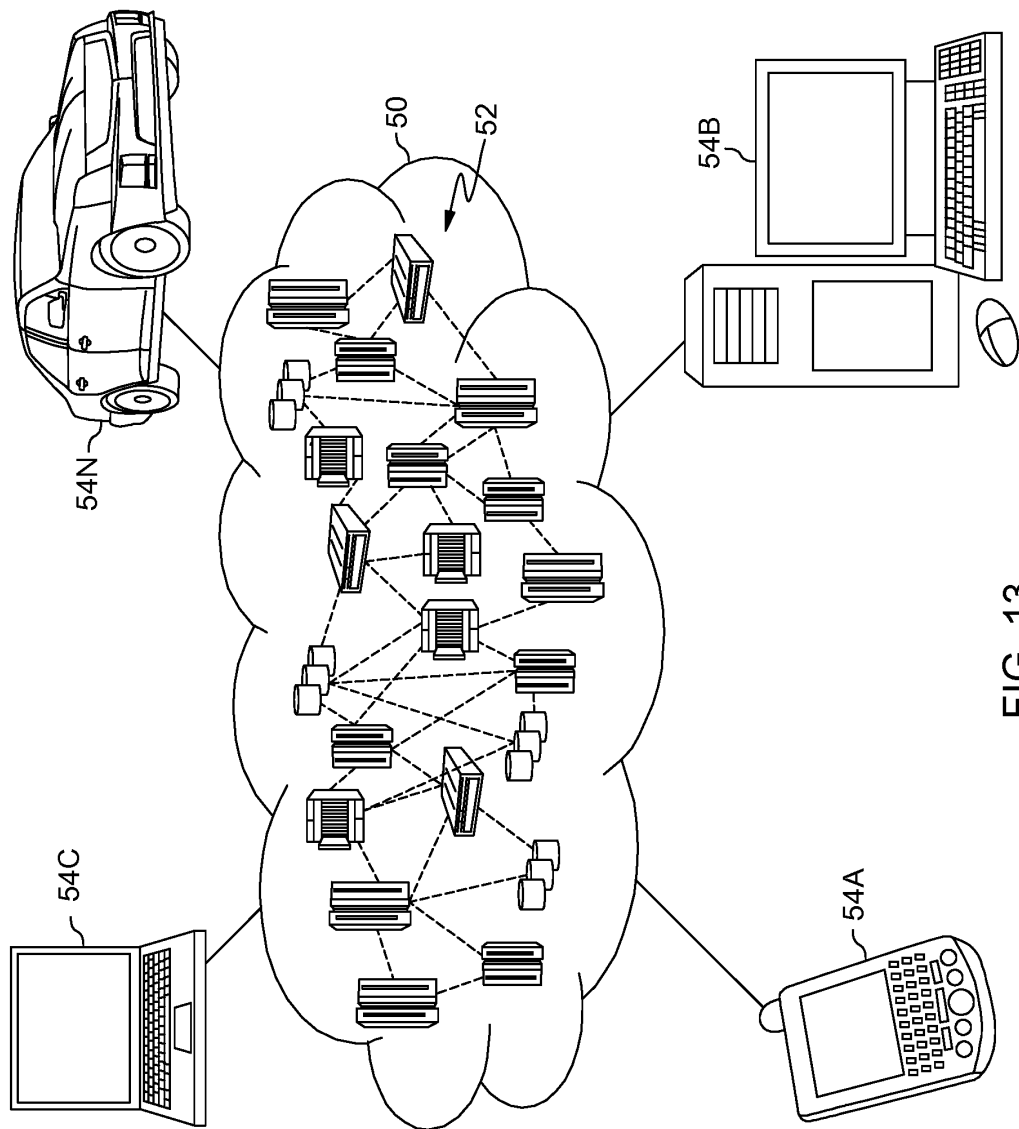


FIG. 13

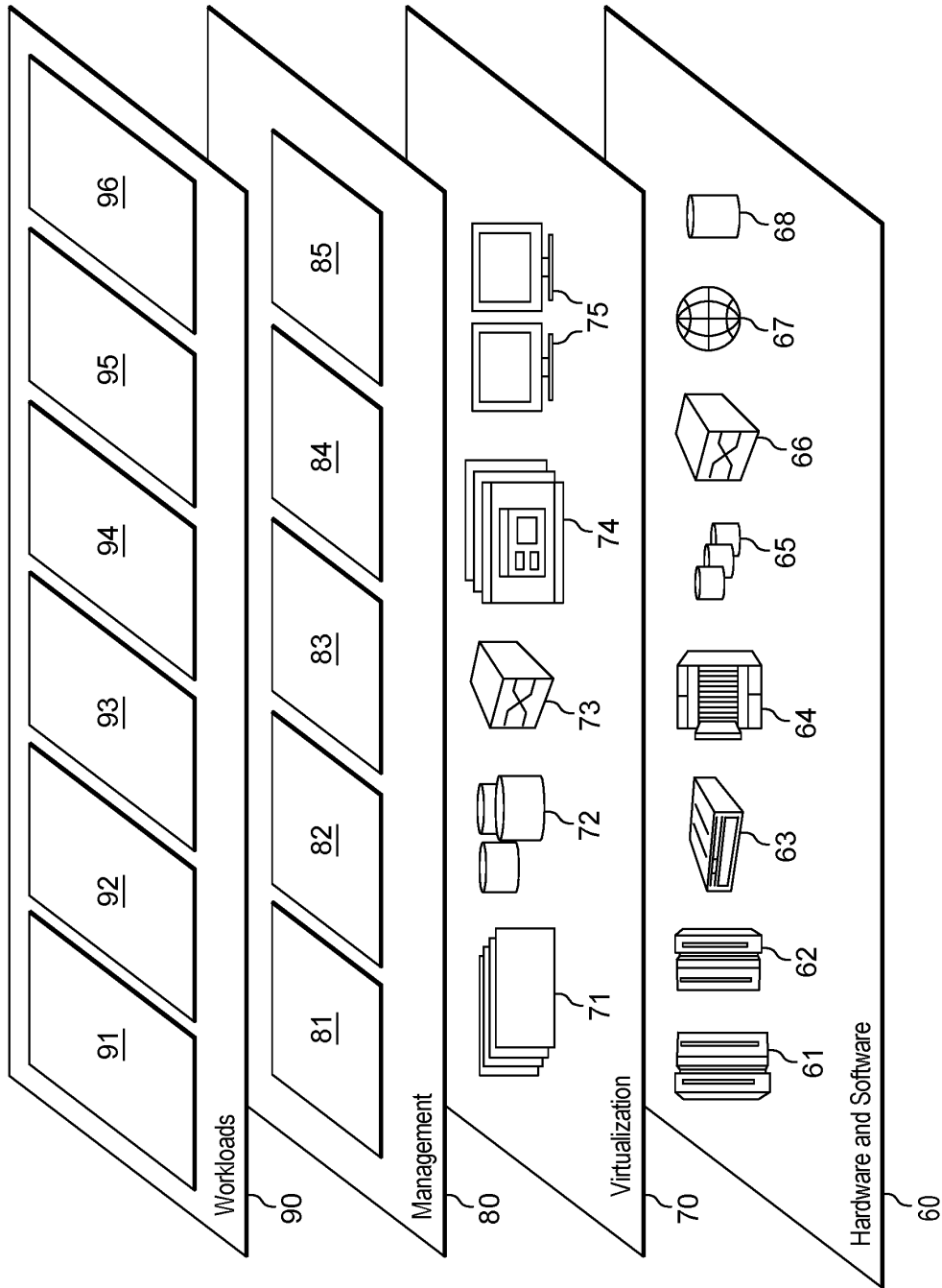


FIG. 14