

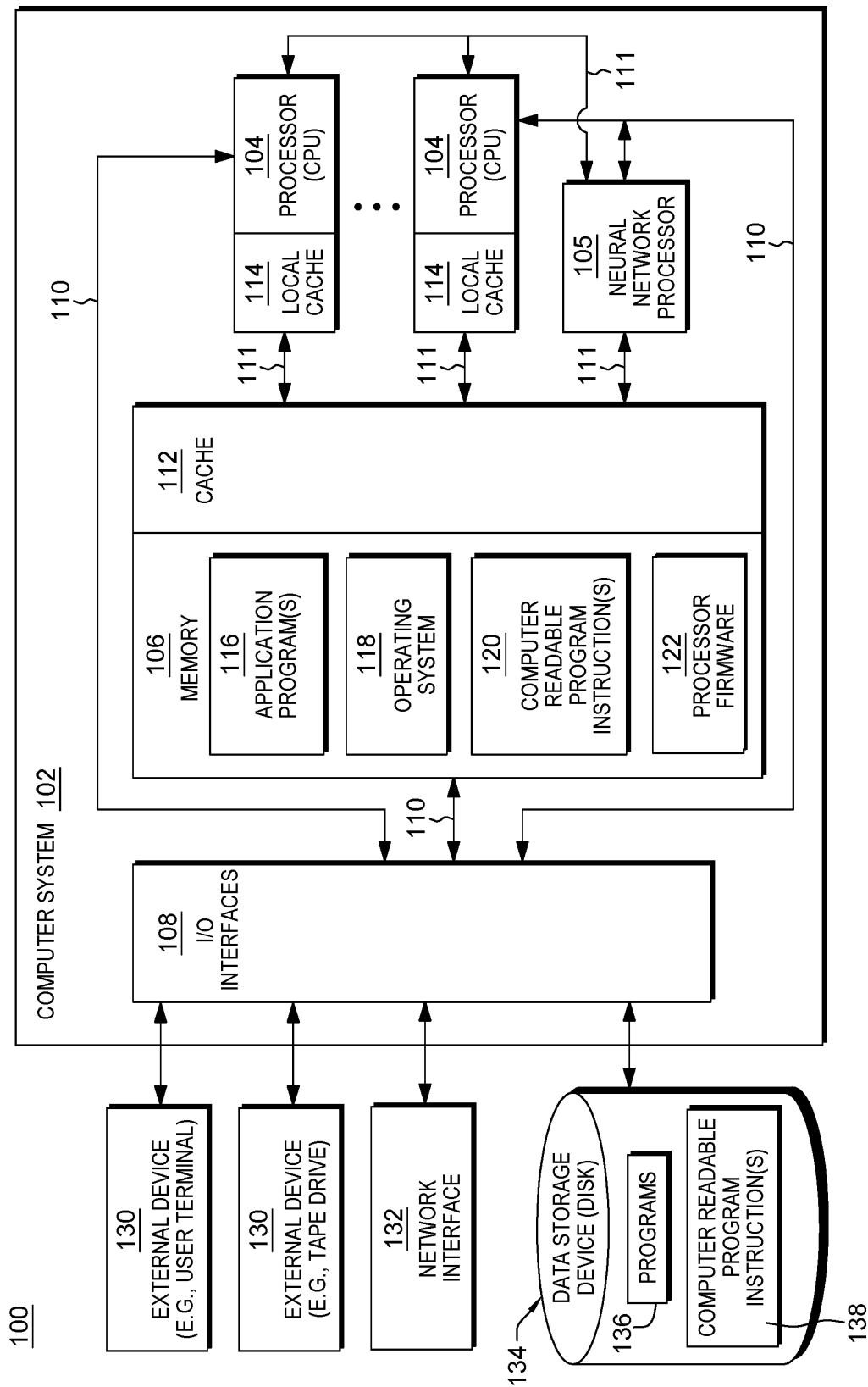


FIG. 1A

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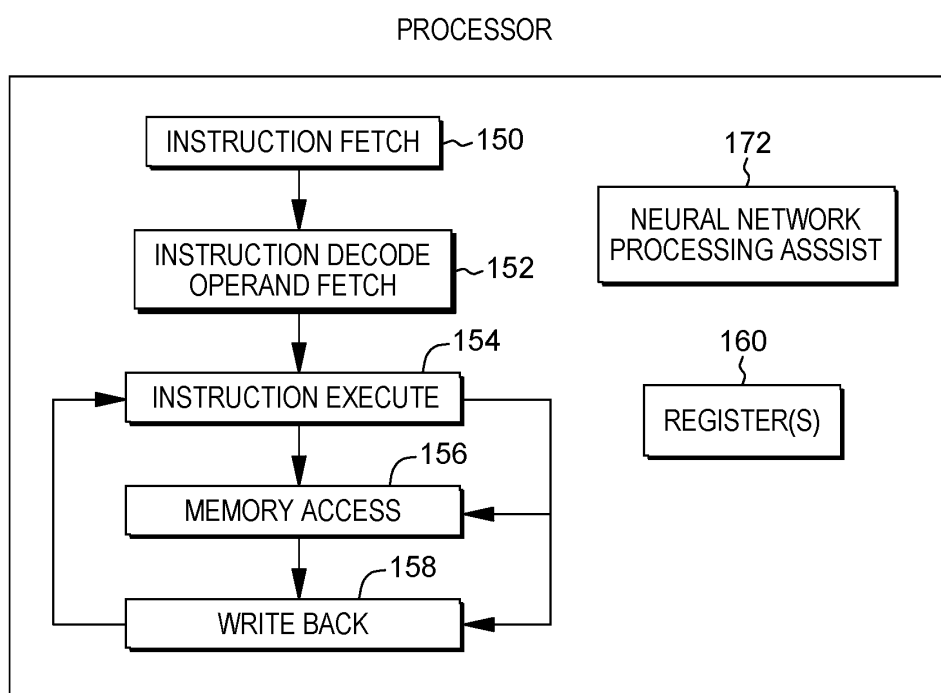


FIG. 1B

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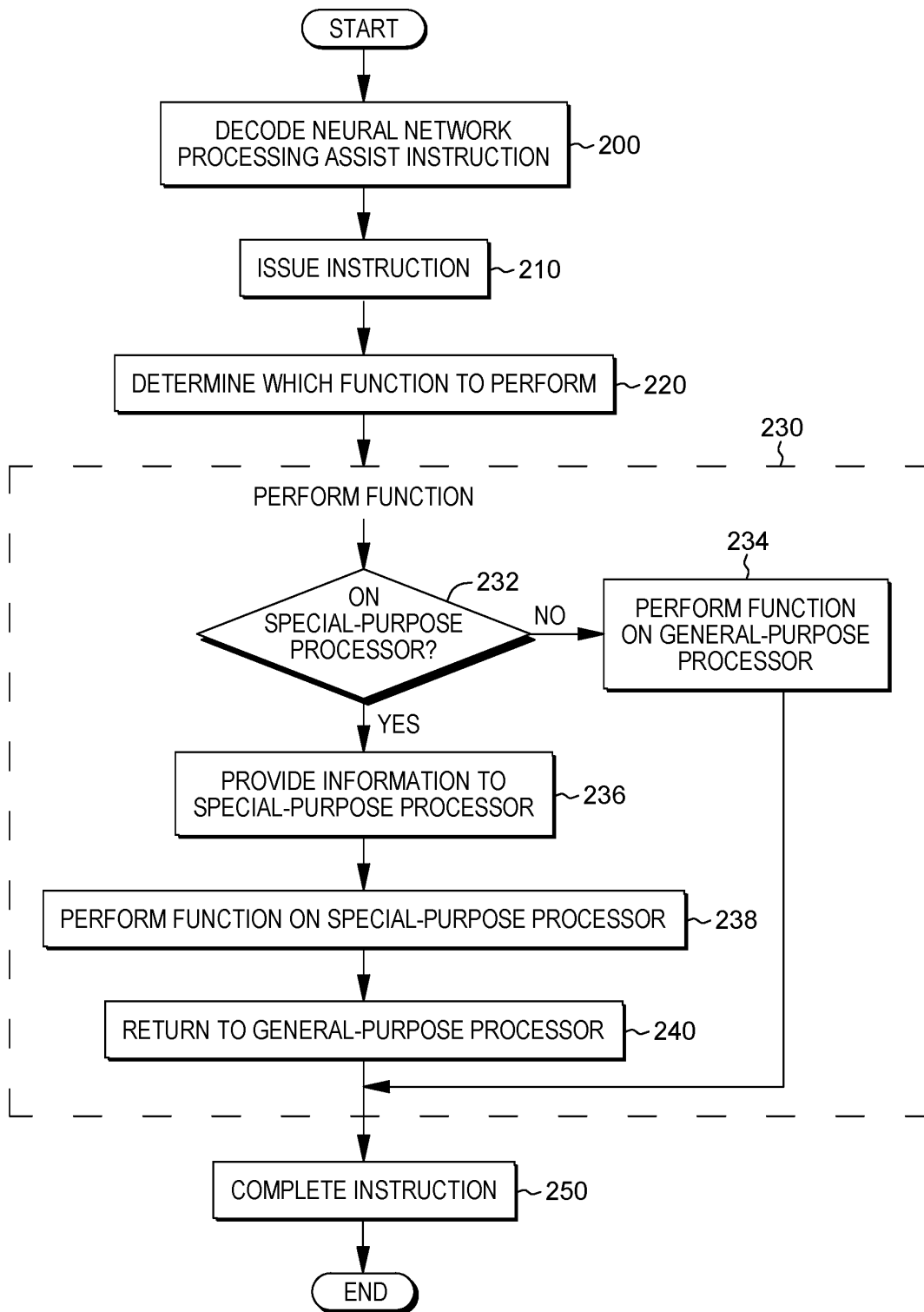


FIG. 2A

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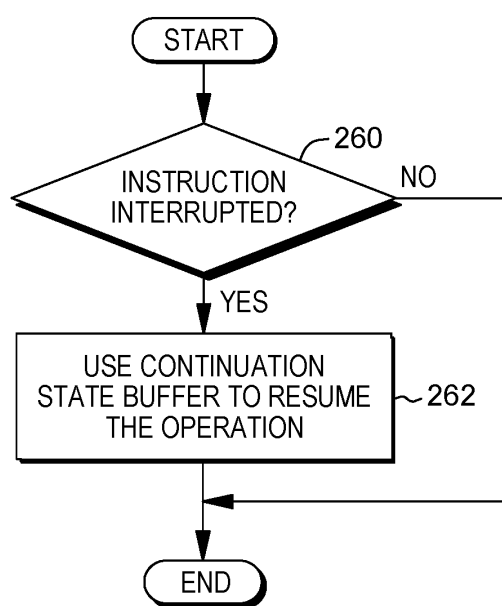


FIG. 2B

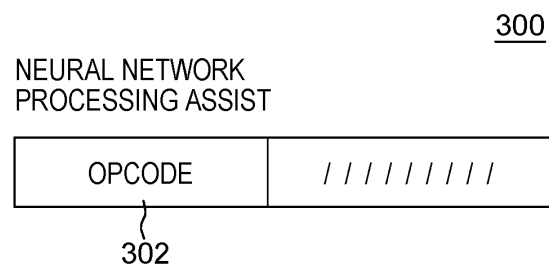


FIG. 3A

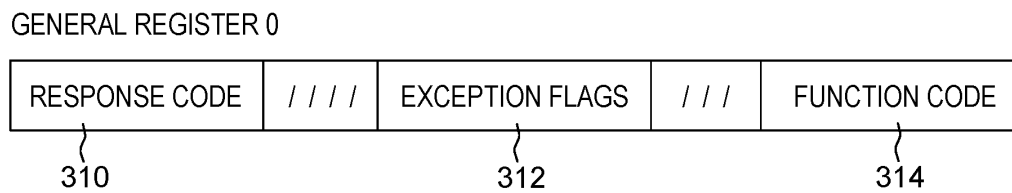


FIG. 3B

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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 - LSTMCT	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. 3C

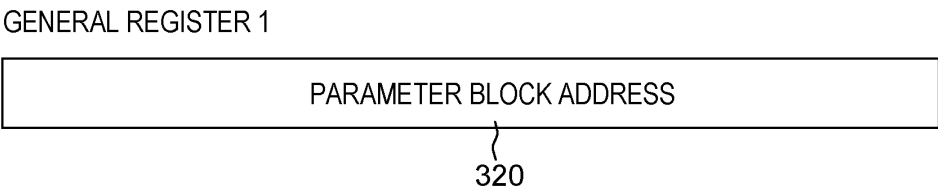


FIG. 3D

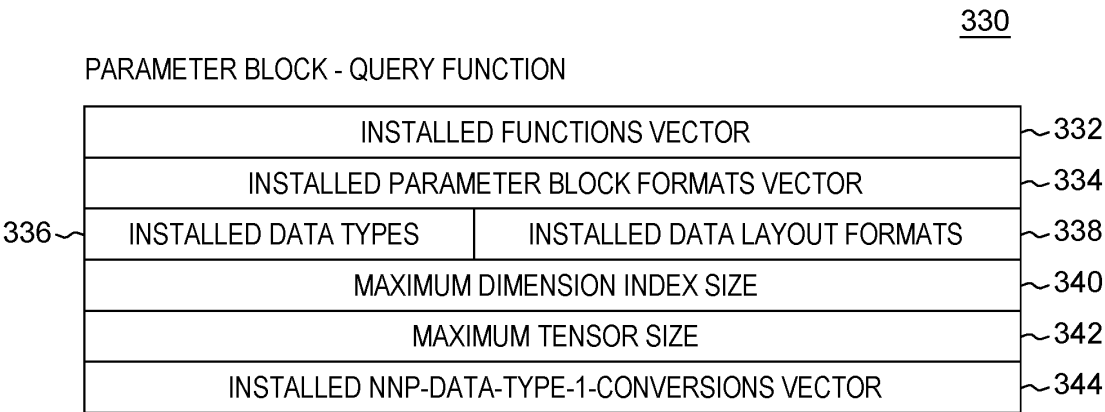


FIG. 3E

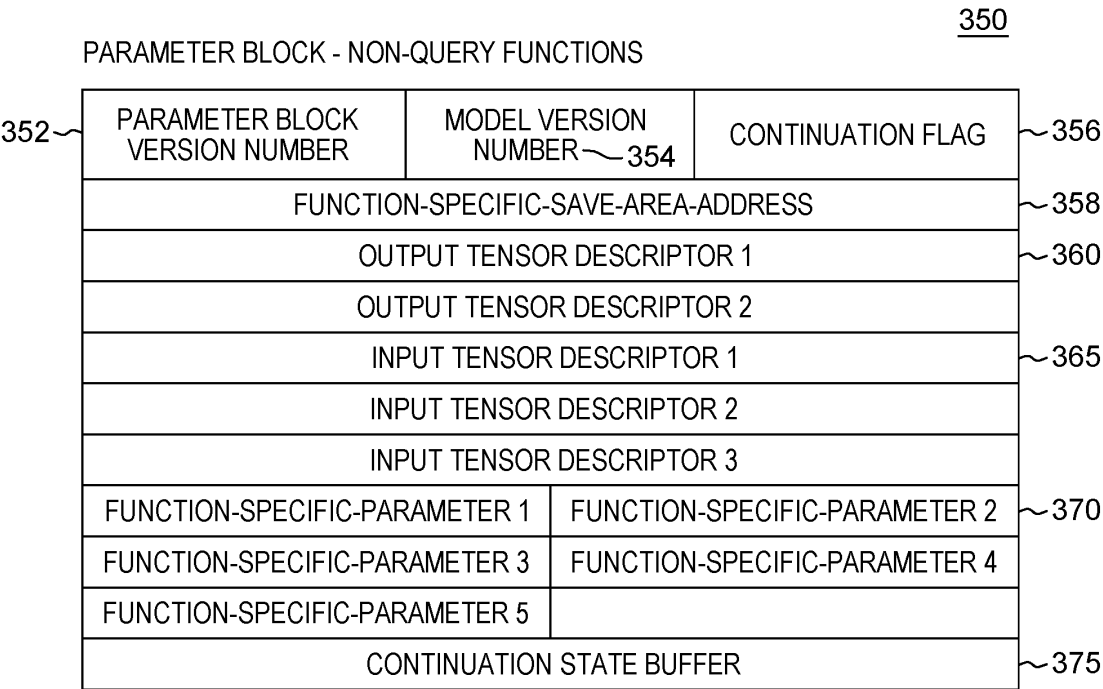


FIG. 3F

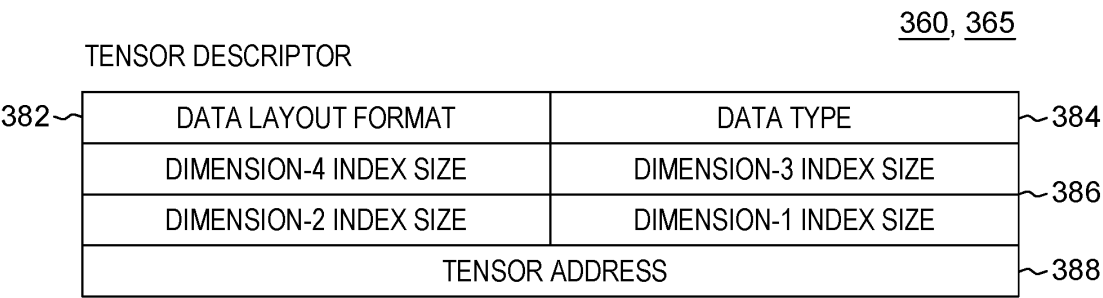


FIG. 3G

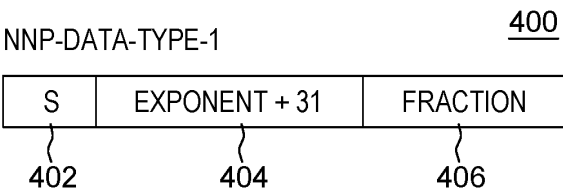
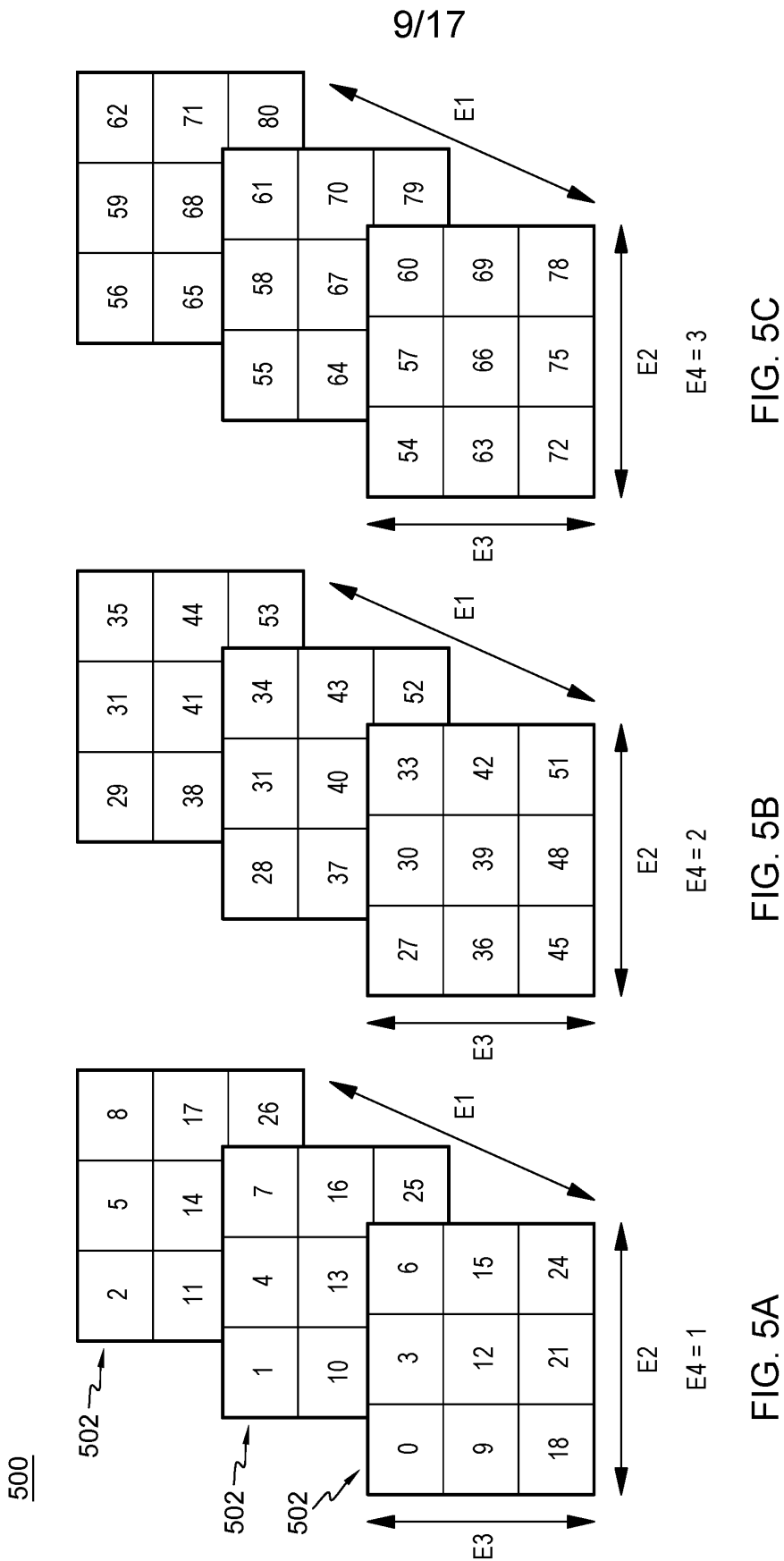


FIG. 4



E3

E2

E4 = 2

502

502

56

59

62

65

68

71

55

58

61

80

64

67

70

54

57

60

79

63

66

69

72

75

78

E3

E2

E4 = 3

502

502

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E1

FIG. 5A

FIG. 5B

FIG. 5C

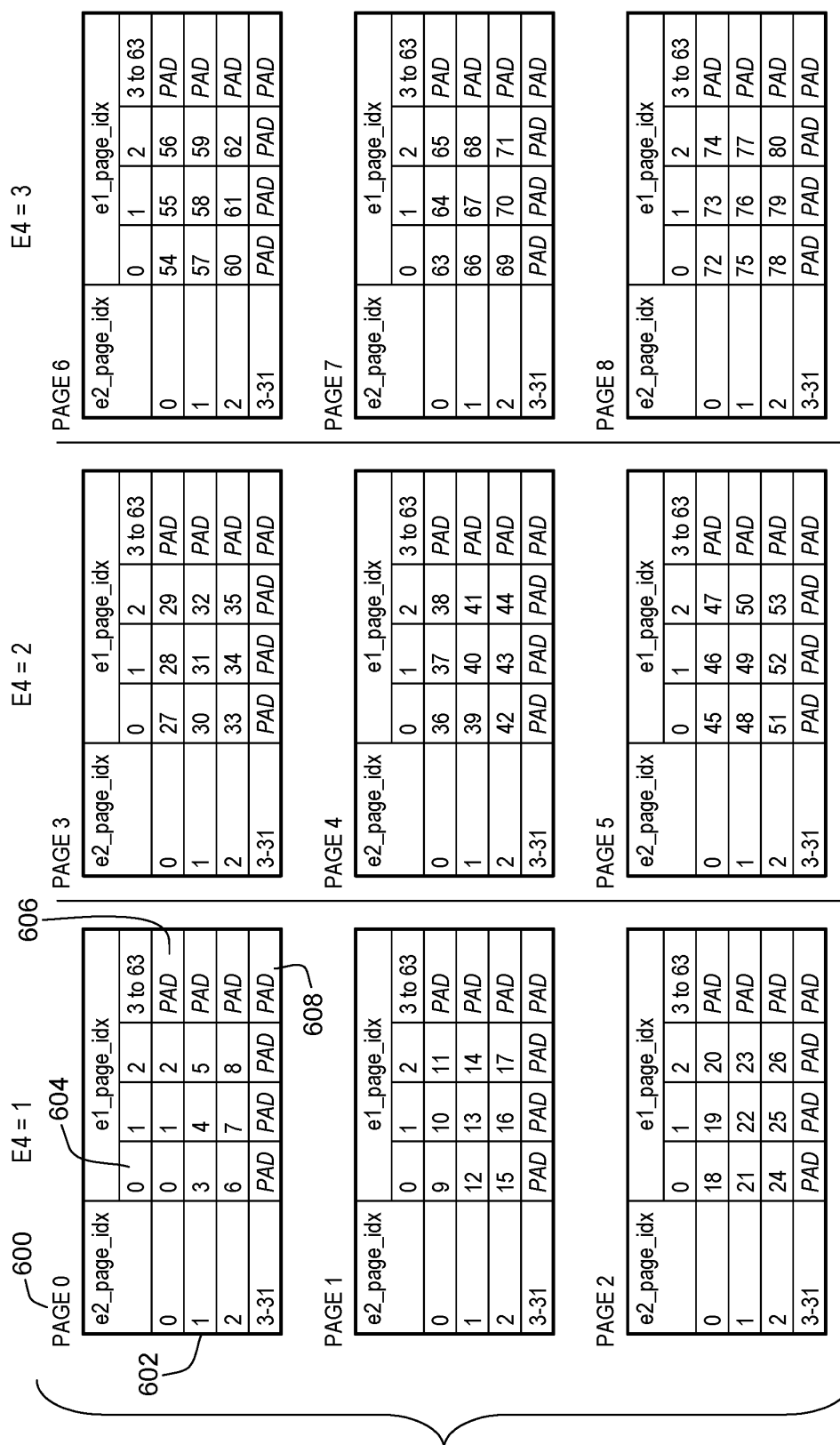


FIG. 6A

FIG. 6B

FIG. 6C

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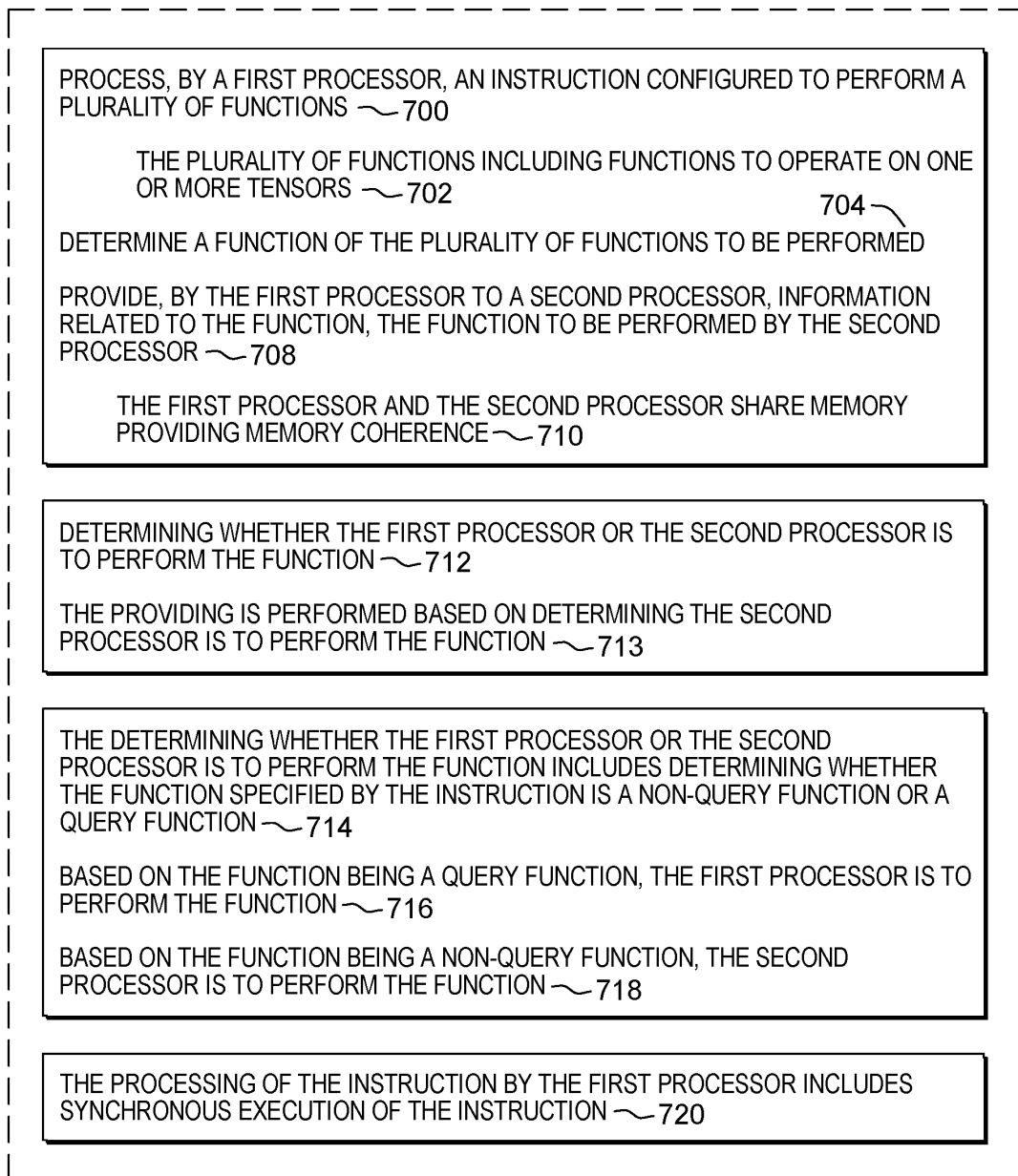


FIG. 7A

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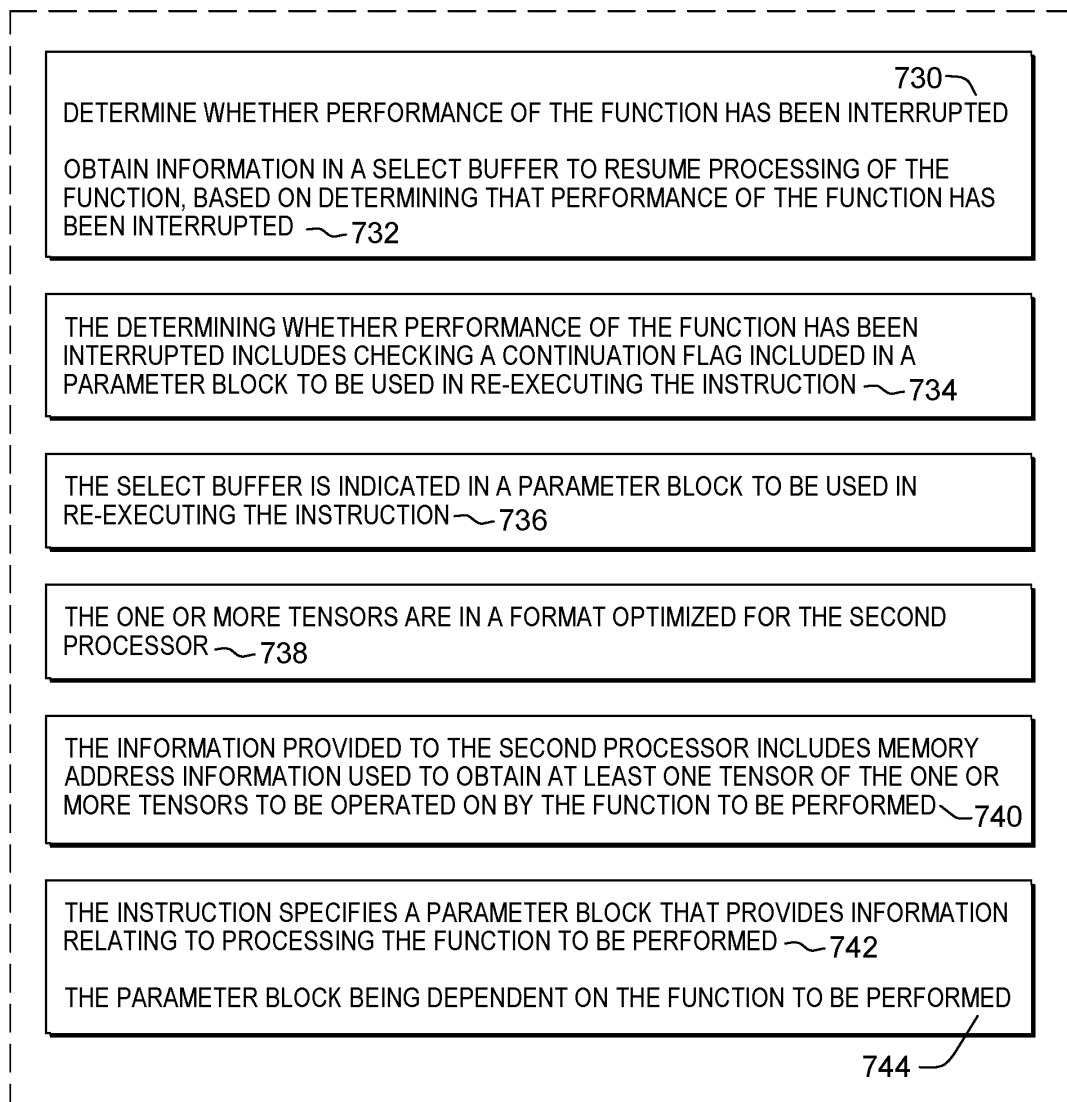


FIG. 7B

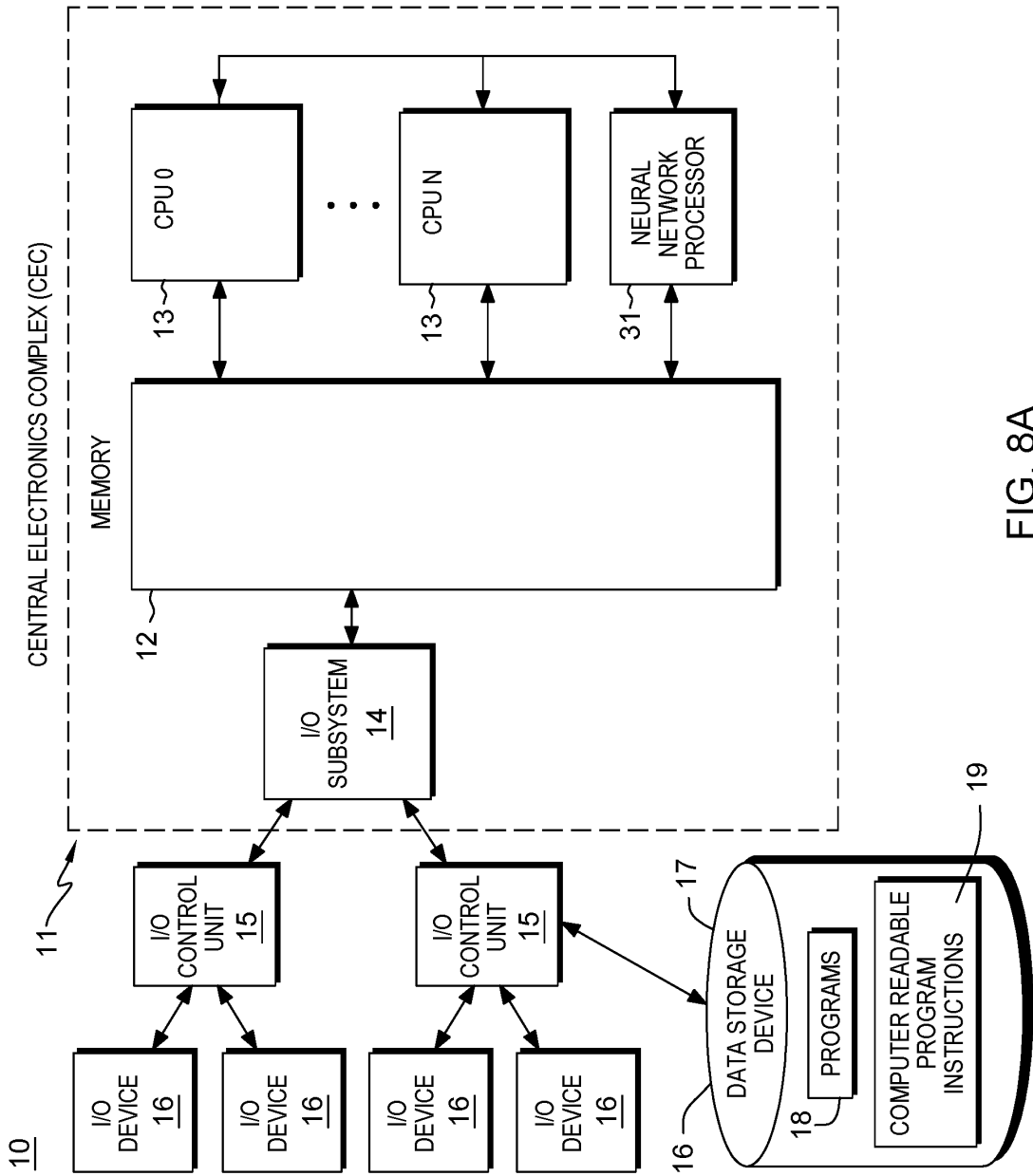


FIG. 8A

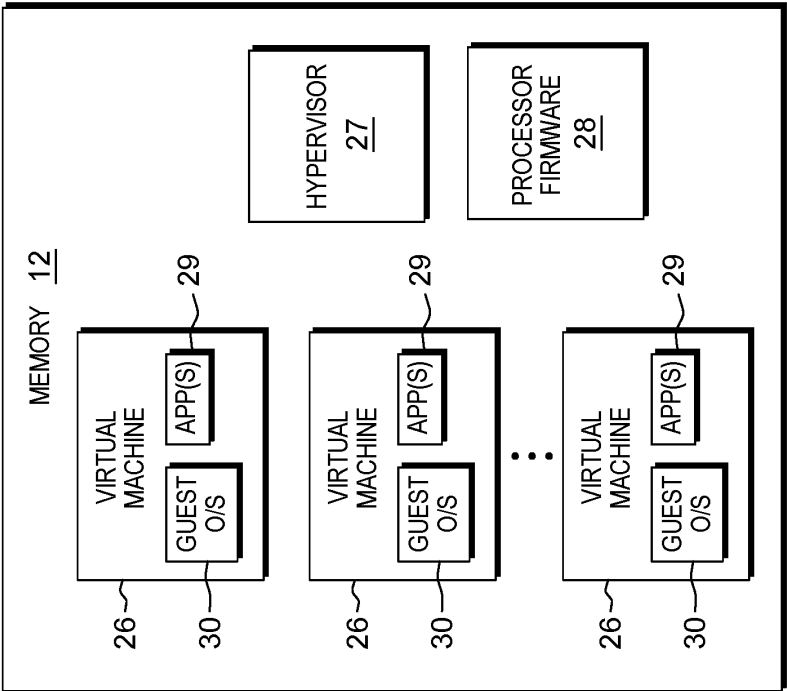


FIG. 8C

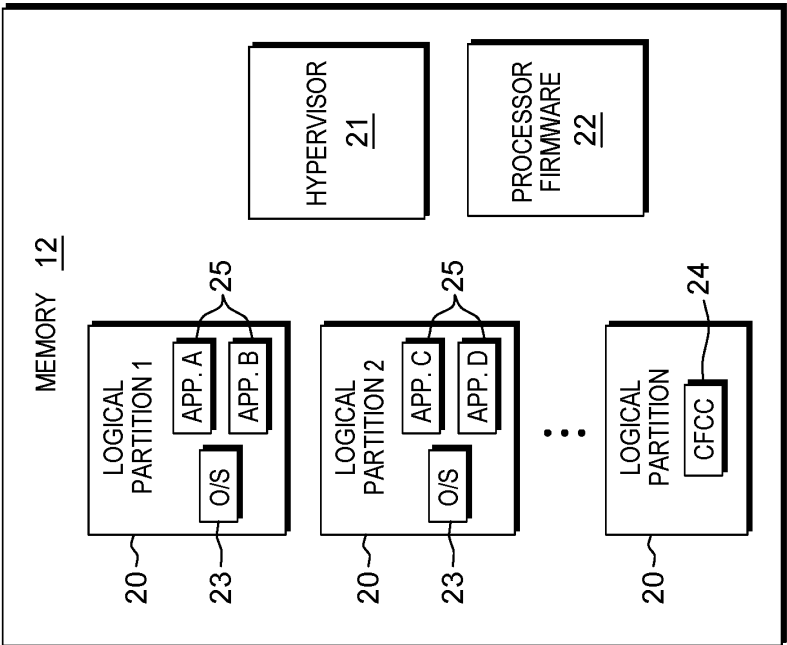


FIG. 8B

11

11

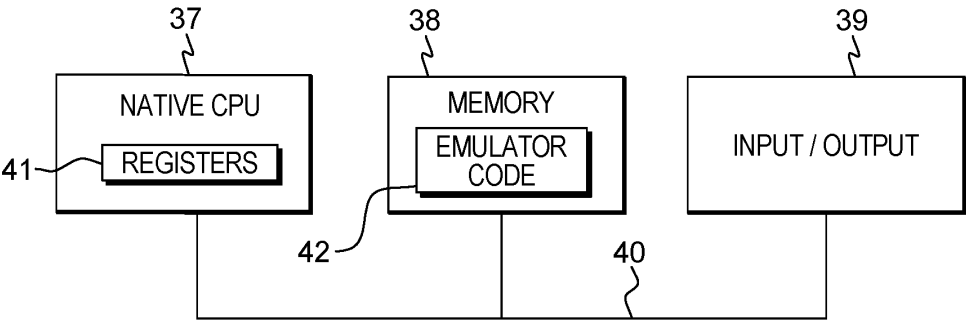


FIG. 9A

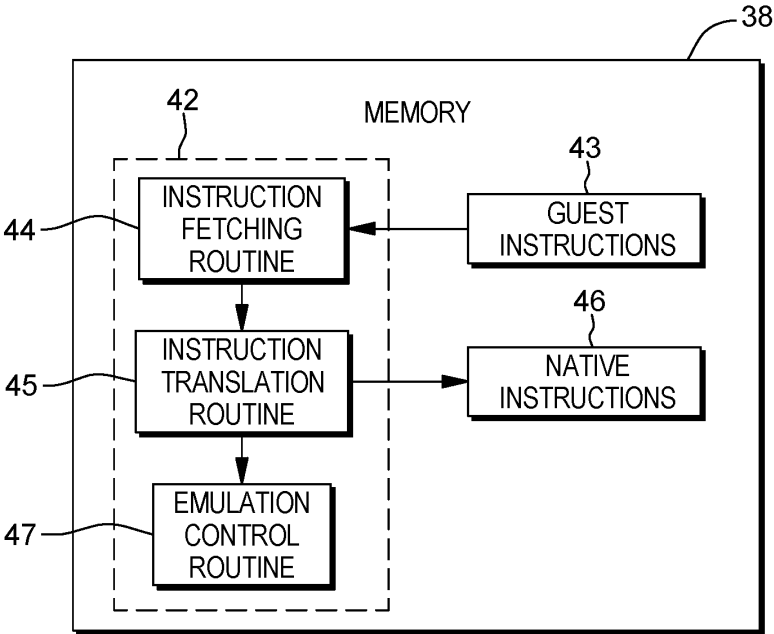


FIG. 9B

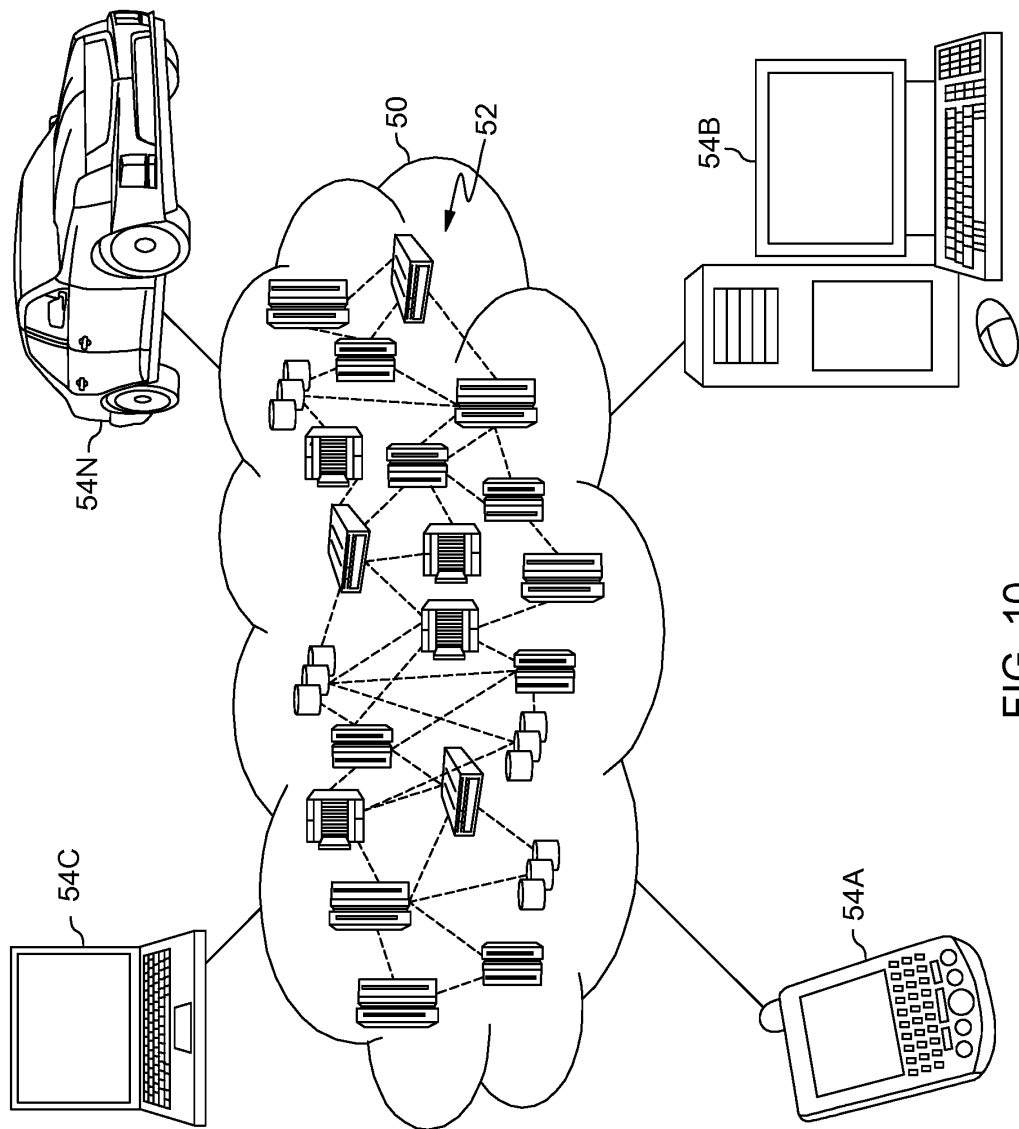


FIG. 10

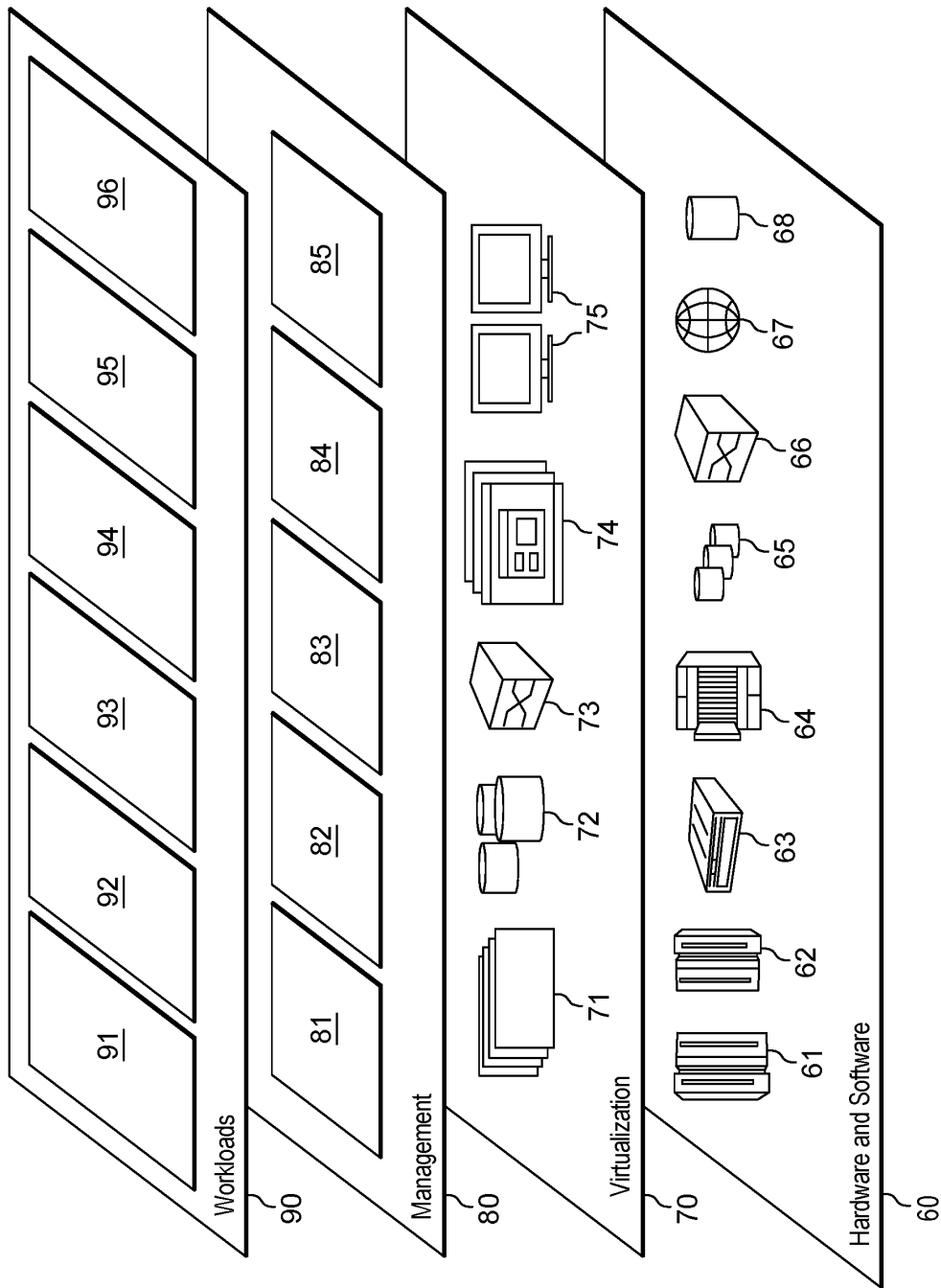


FIG. 11