

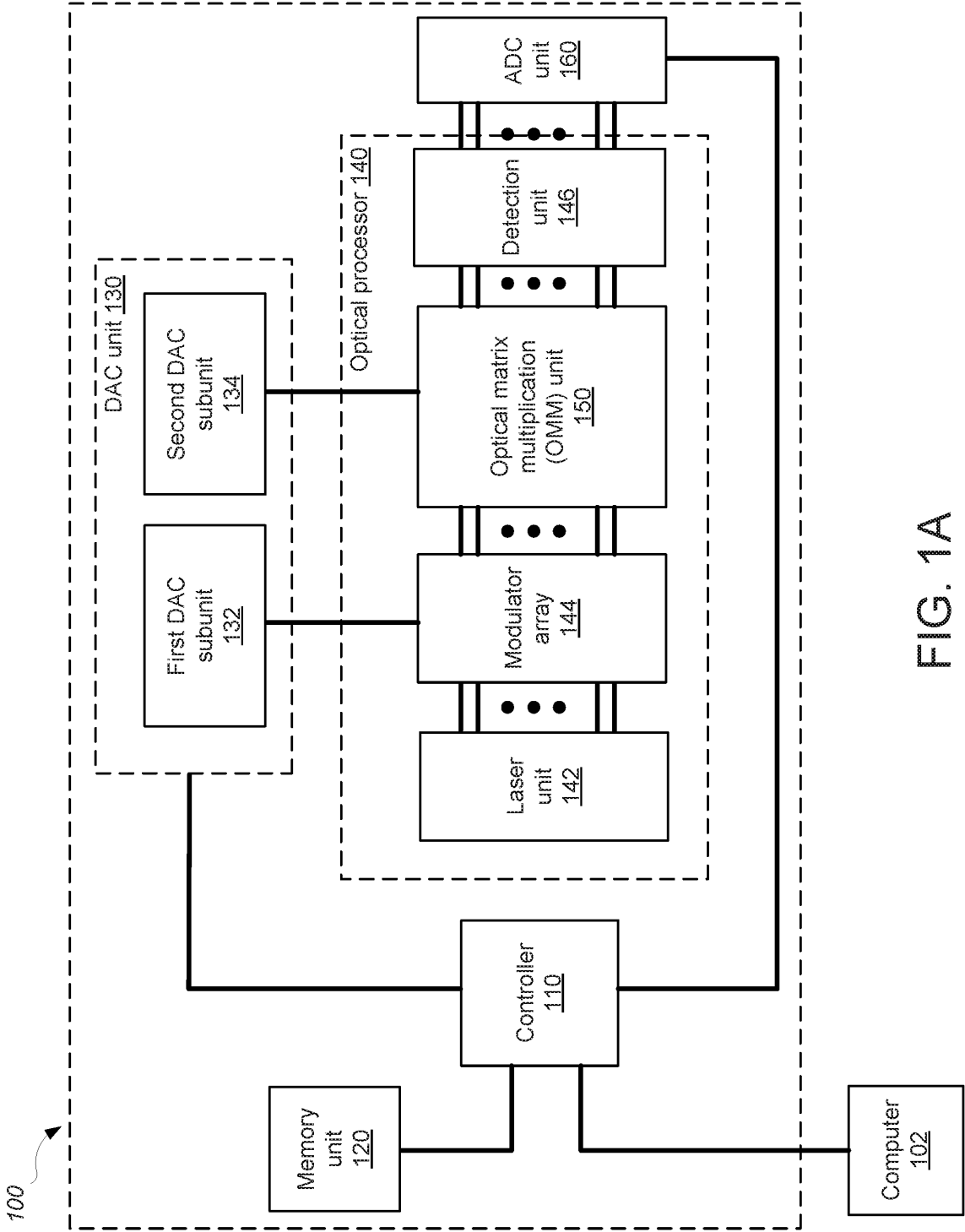


FIG. 1A

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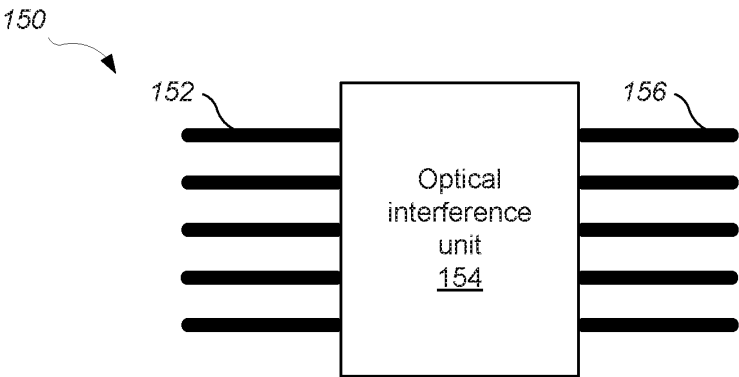


FIG. 1B

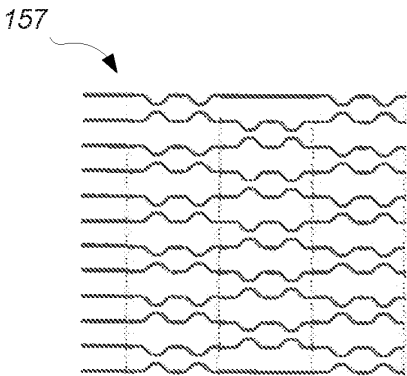


FIG. 1C

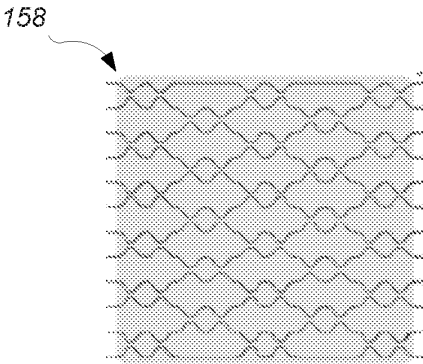


FIG. 1D

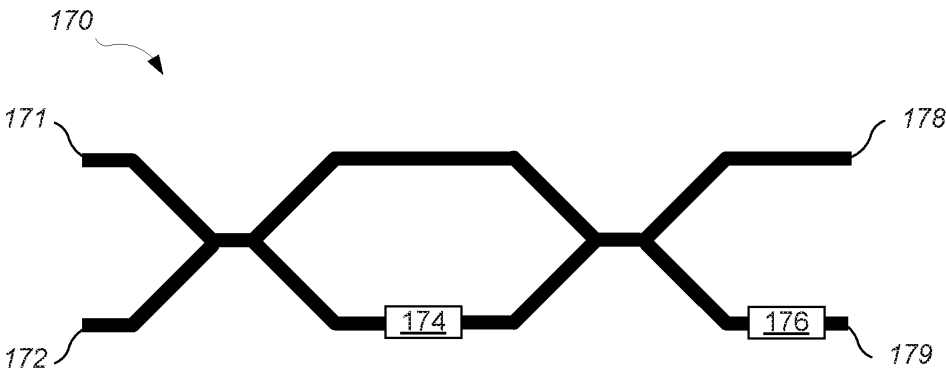


FIG. 1E

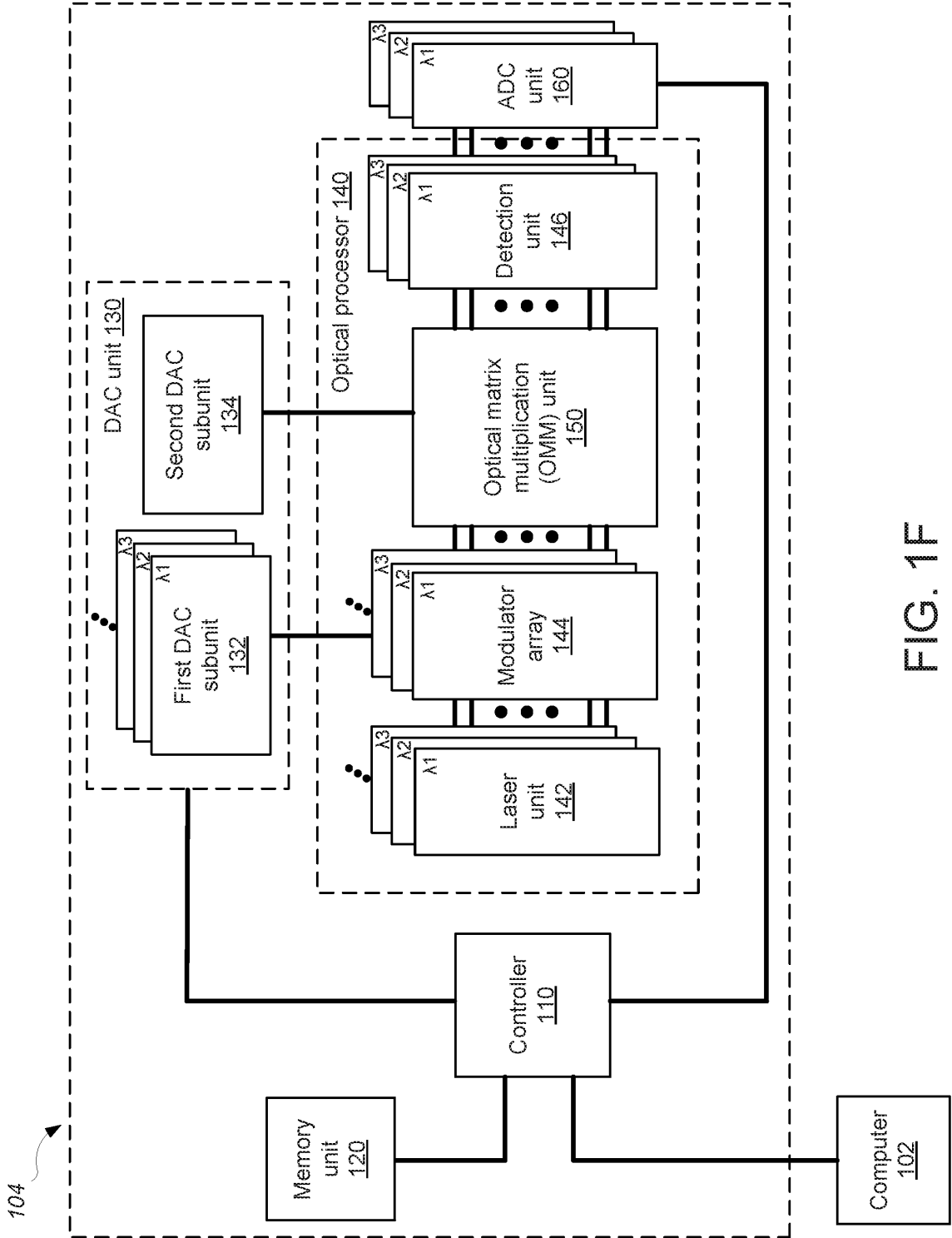


FIG. 1F

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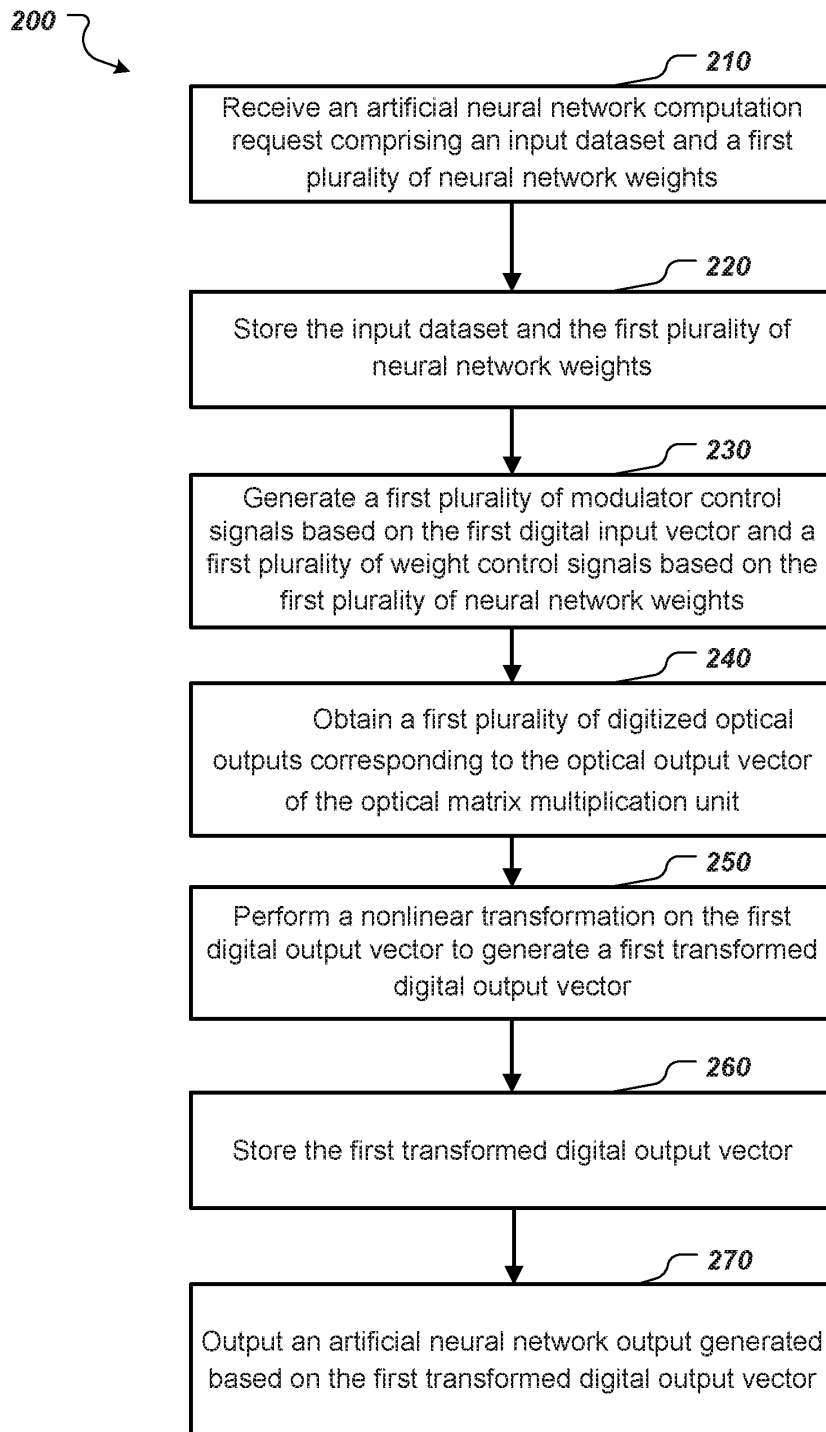


FIG. 2A

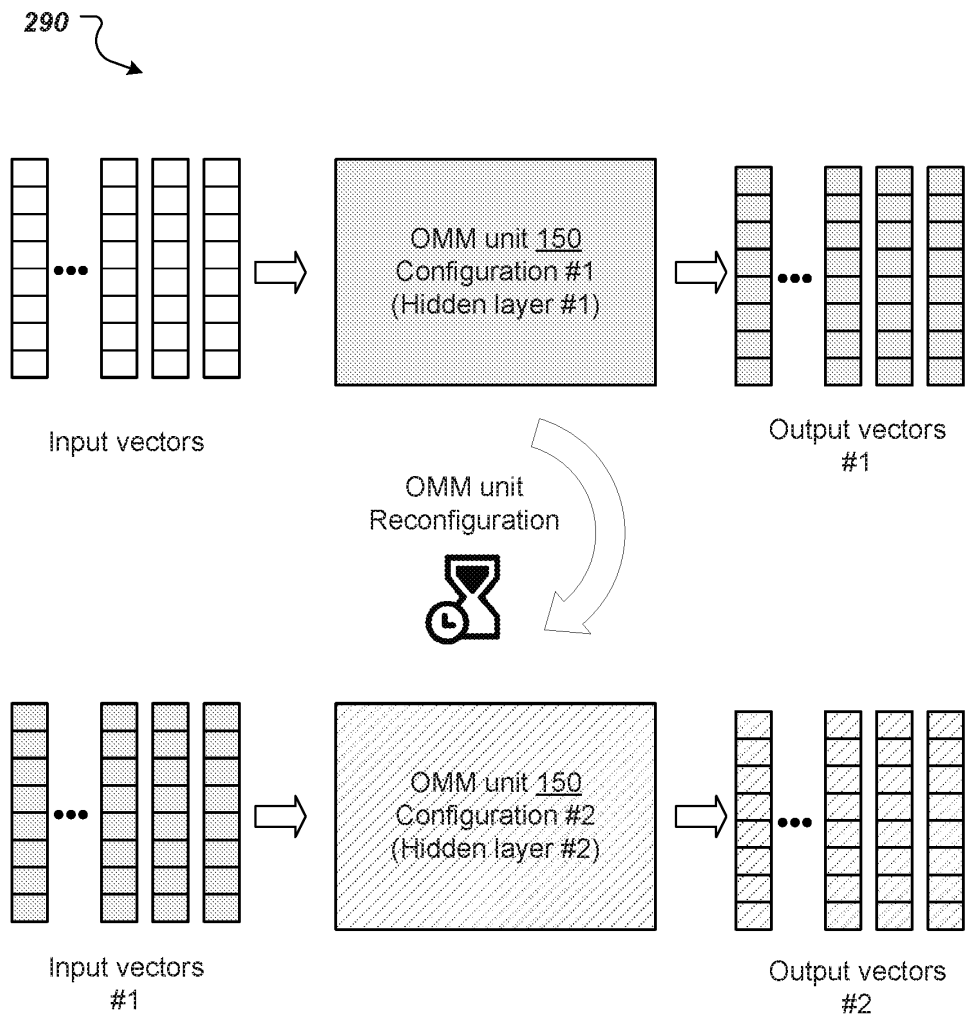
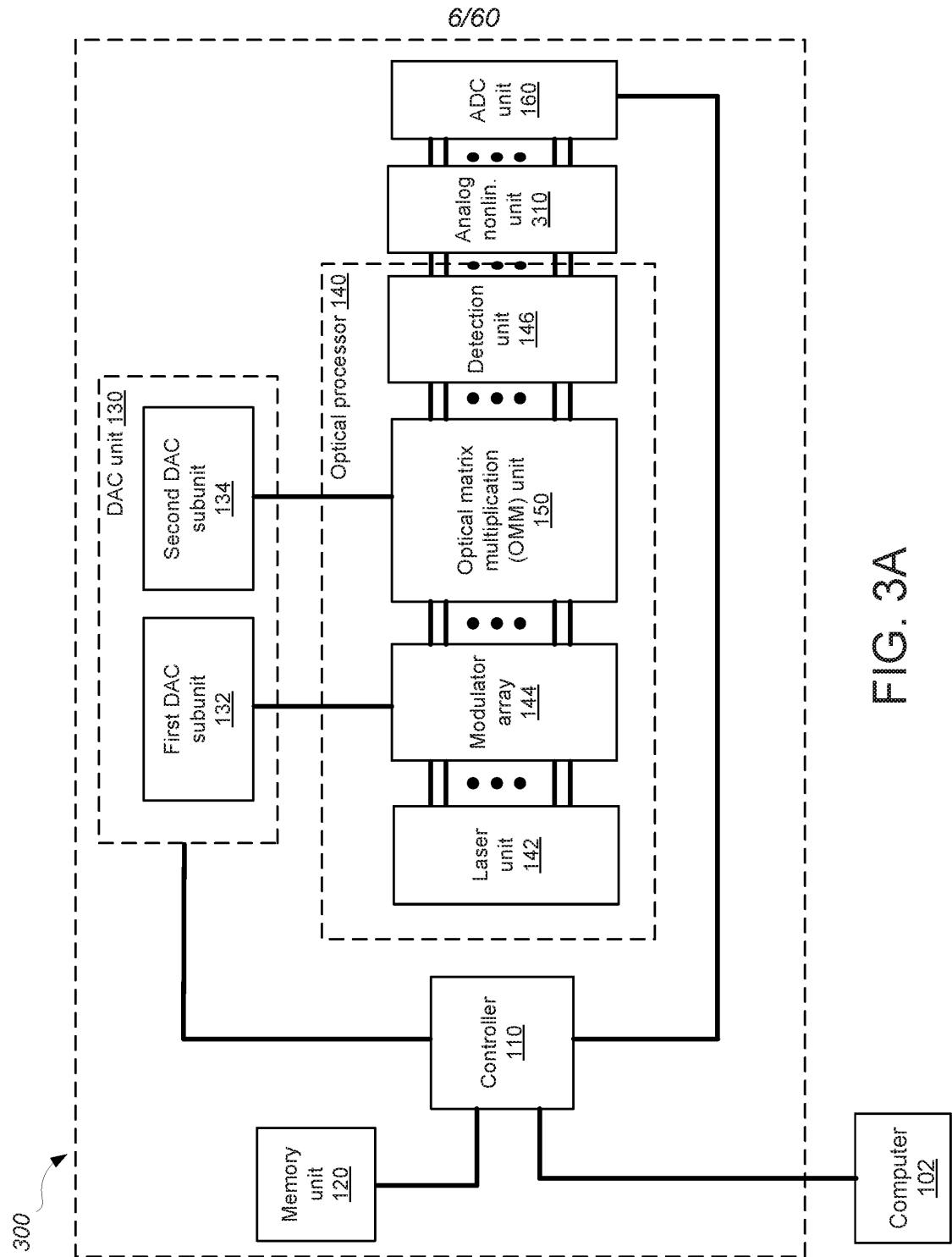


FIG. 2B



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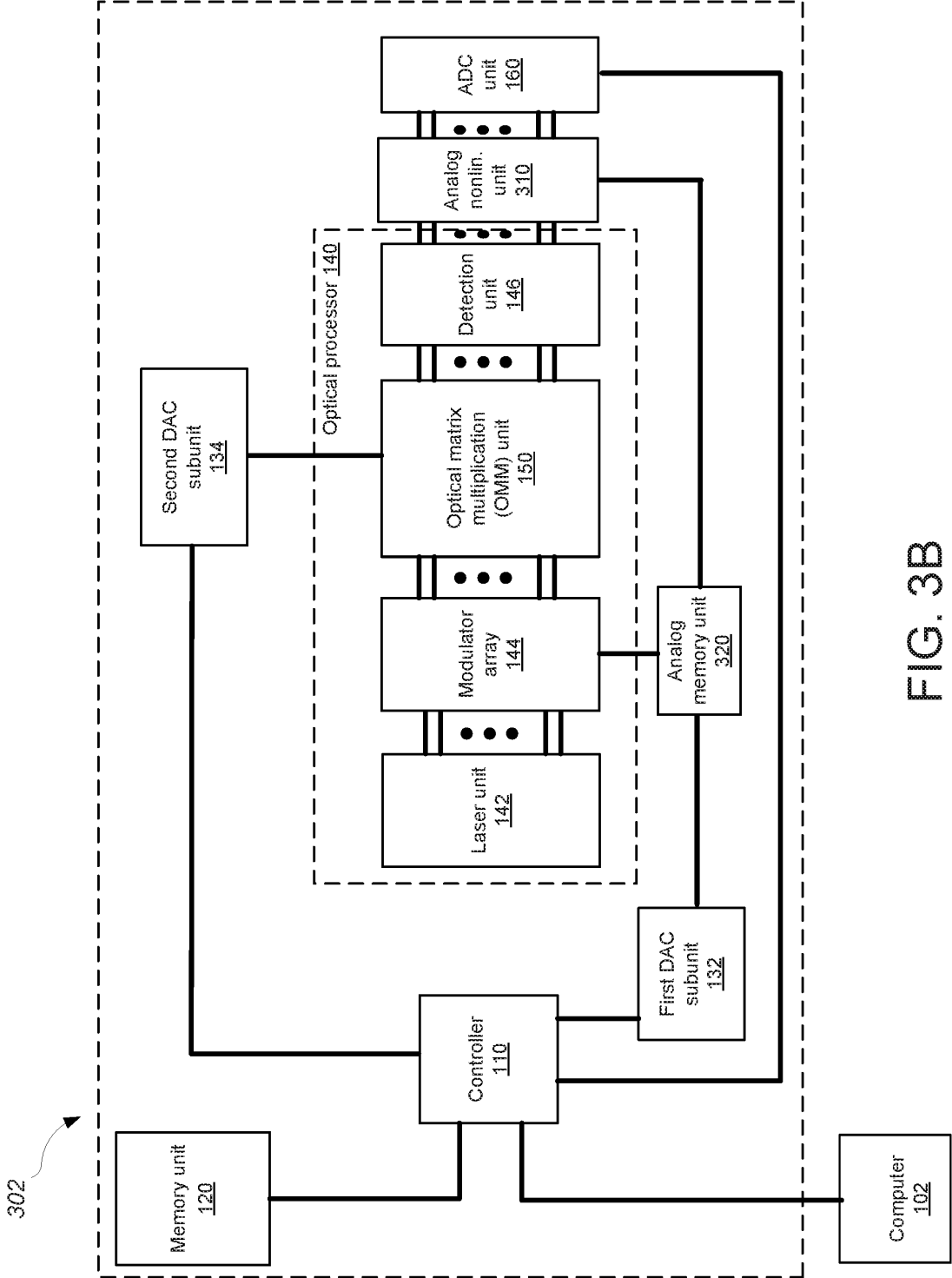
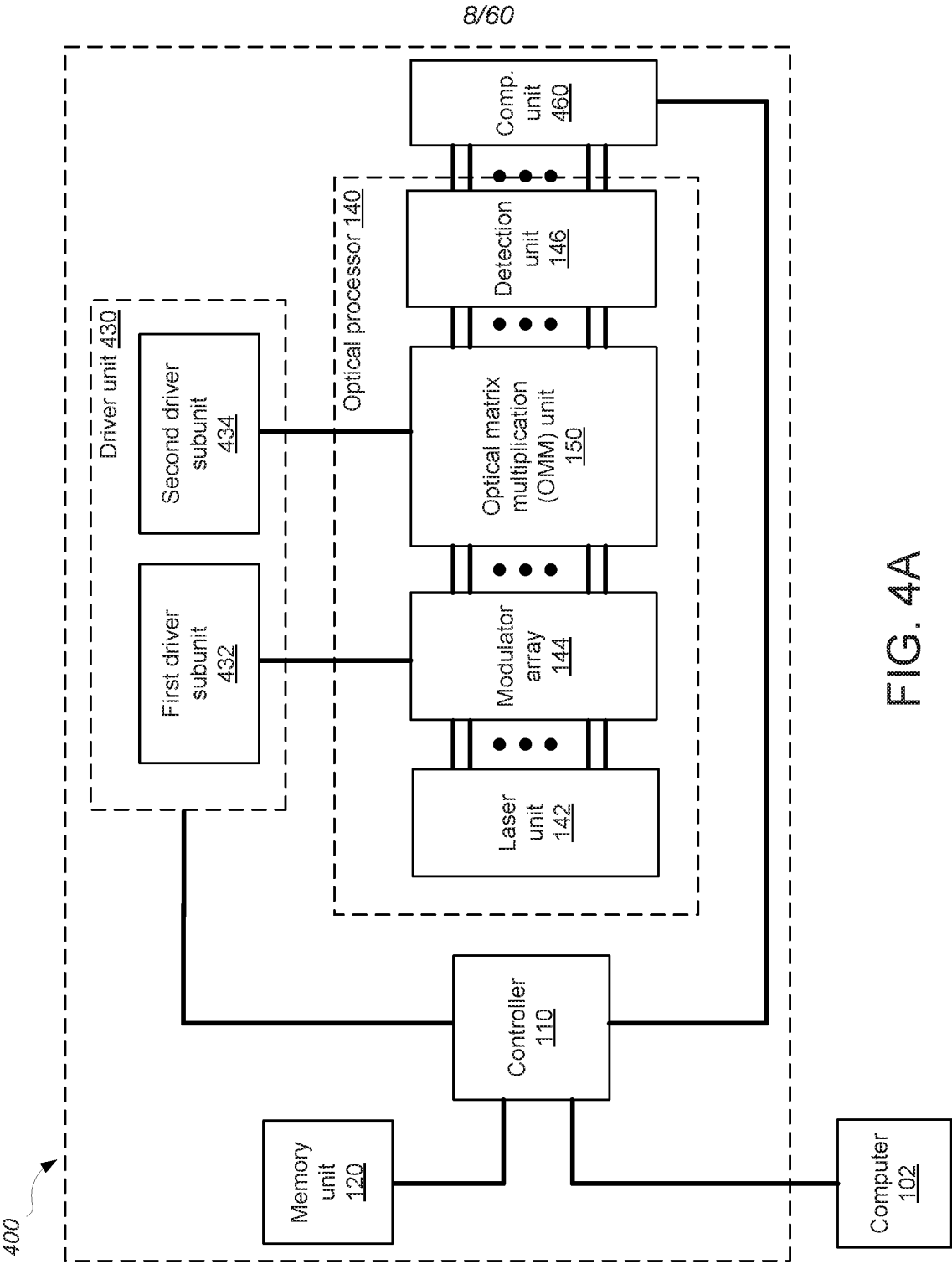


FIG. 3B



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$$\vec{V} = \begin{bmatrix} V_0 \\ V_1 \\ V_2 \\ V_3 \end{bmatrix}$$

$$U = \begin{bmatrix} U_{00} & U_{01} & U_{02} & U_{03} \\ U_{10} & U_{11} & U_{12} & U_{13} \\ U_{20} & U_{21} & U_{22} & U_{23} \\ U_{30} & U_{31} & U_{32} & U_{33} \end{bmatrix}$$

$$\vec{V} = 2^0 \begin{matrix} \vec{V}_{\text{bit0}} \\ \begin{bmatrix} V_{0,\text{bit0}} \\ V_{1,\text{bit0}} \\ V_{2,\text{bit0}} \\ V_{3,\text{bit0}} \end{bmatrix} \end{matrix} + 2^1 \begin{matrix} \vec{V}_{\text{bit1}} \\ \begin{bmatrix} V_{0,\text{bit1}} \\ V_{1,\text{bit1}} \\ V_{2,\text{bit1}} \\ V_{3,\text{bit1}} \end{bmatrix} \end{matrix} + 2^2 \begin{matrix} \vec{V}_{\text{bit2}} \\ \begin{bmatrix} V_{0,\text{bit2}} \\ V_{1,\text{bit2}} \\ V_{2,\text{bit2}} \\ V_{3,\text{bit2}} \end{bmatrix} \end{matrix} + 2^3 \begin{matrix} \vec{V}_{\text{bit3}} \\ \begin{bmatrix} V_{0,\text{bit3}} \\ V_{1,\text{bit3}} \\ V_{2,\text{bit3}} \\ V_{3,\text{bit3}} \end{bmatrix} \end{matrix}$$

$$U \cdot \vec{V} = 2^0 U \cdot \vec{V}_{\text{bit0}} + 2^1 U \cdot \vec{V}_{\text{bit1}} + 2^2 U \cdot \vec{V}_{\text{bit2}} + 2^3 U \cdot \vec{V}_{\text{bit3}}$$

FIG. 4B

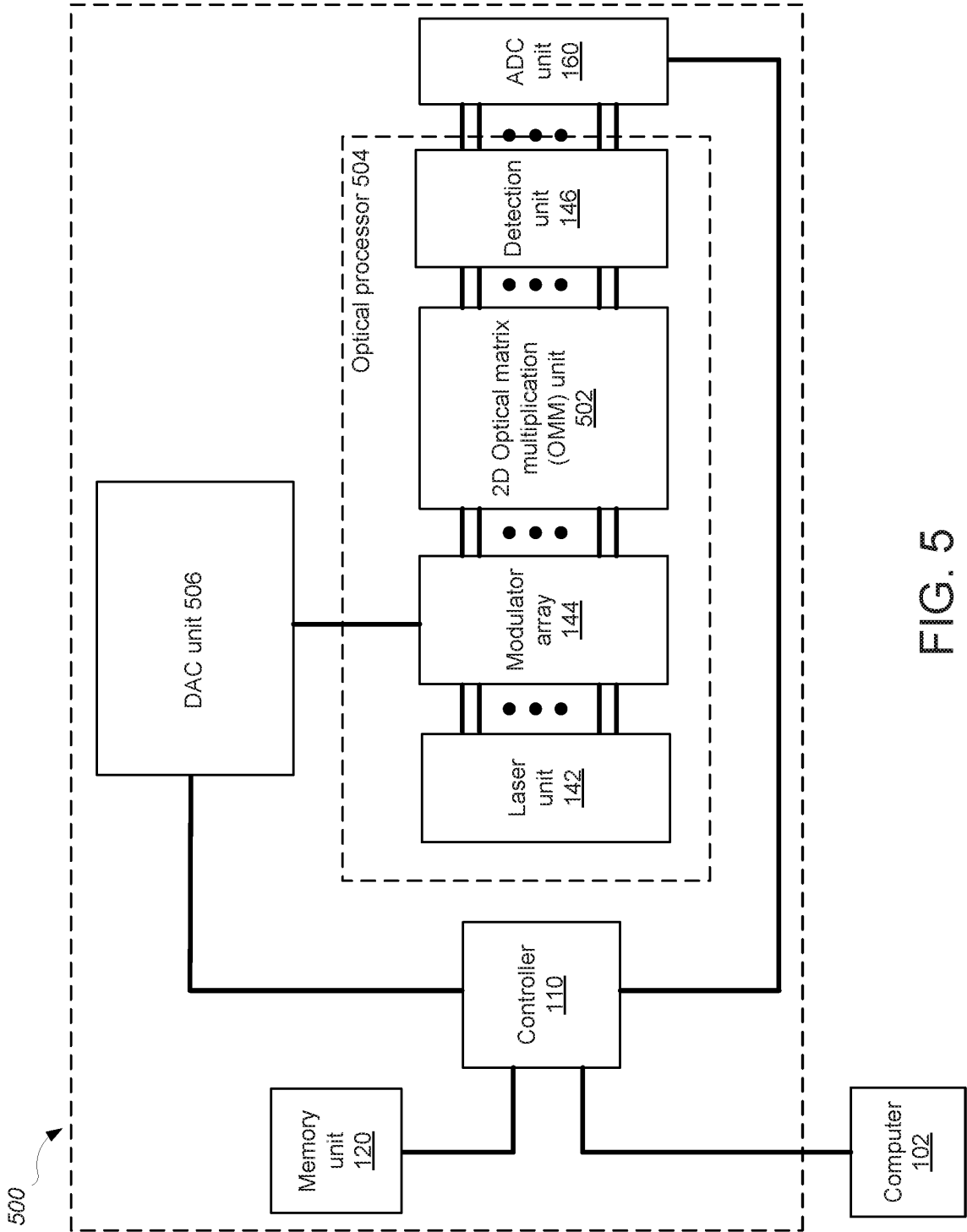


FIG. 5

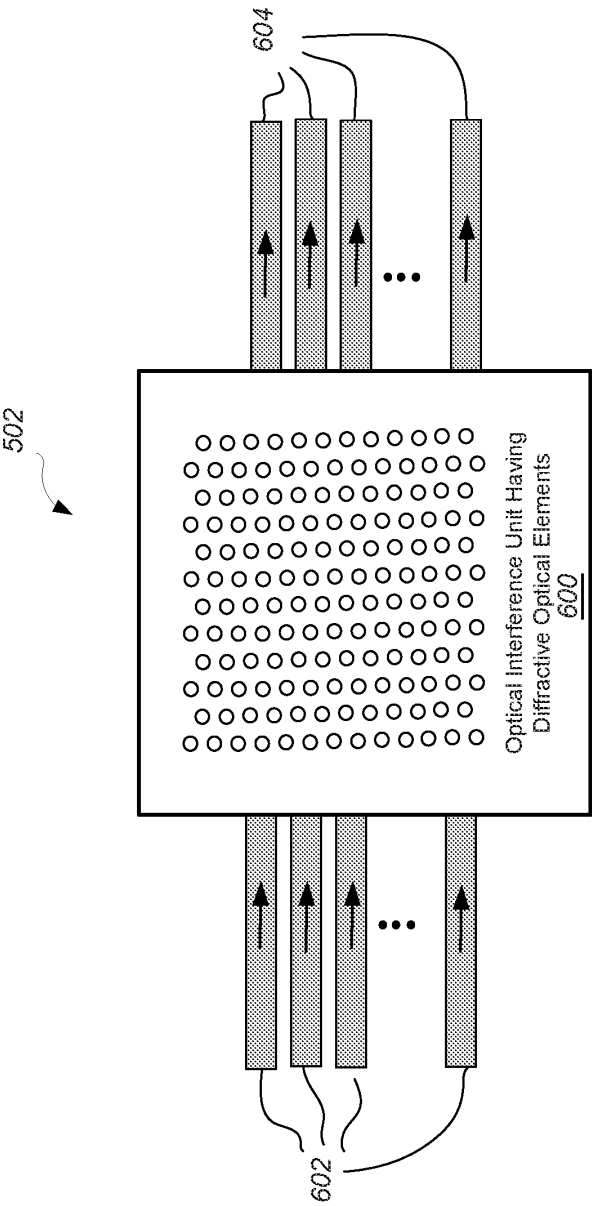
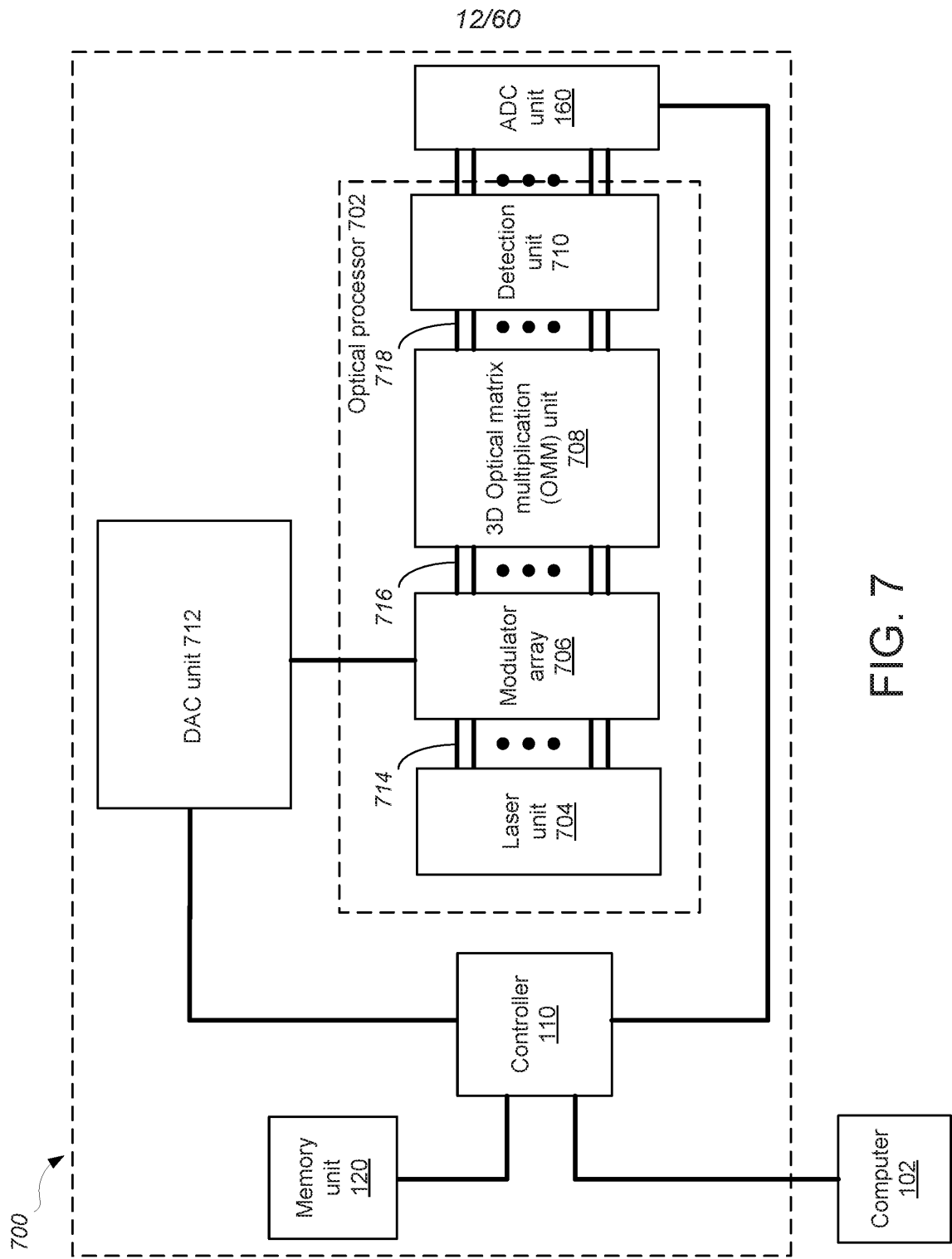


FIG. 6



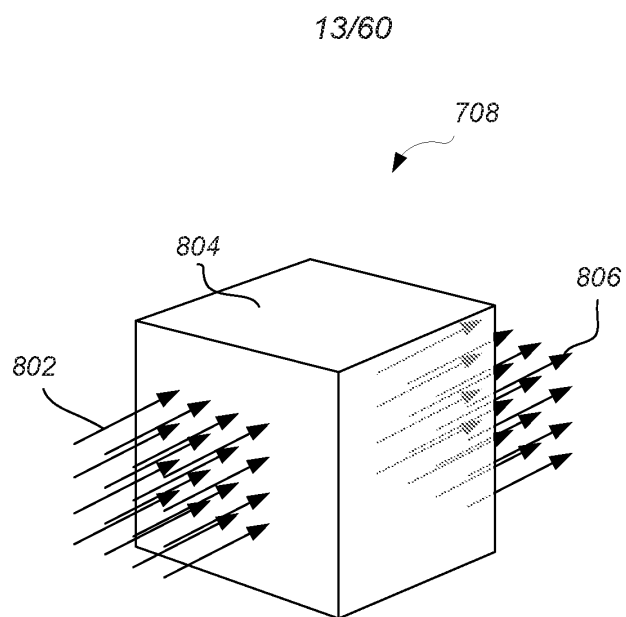
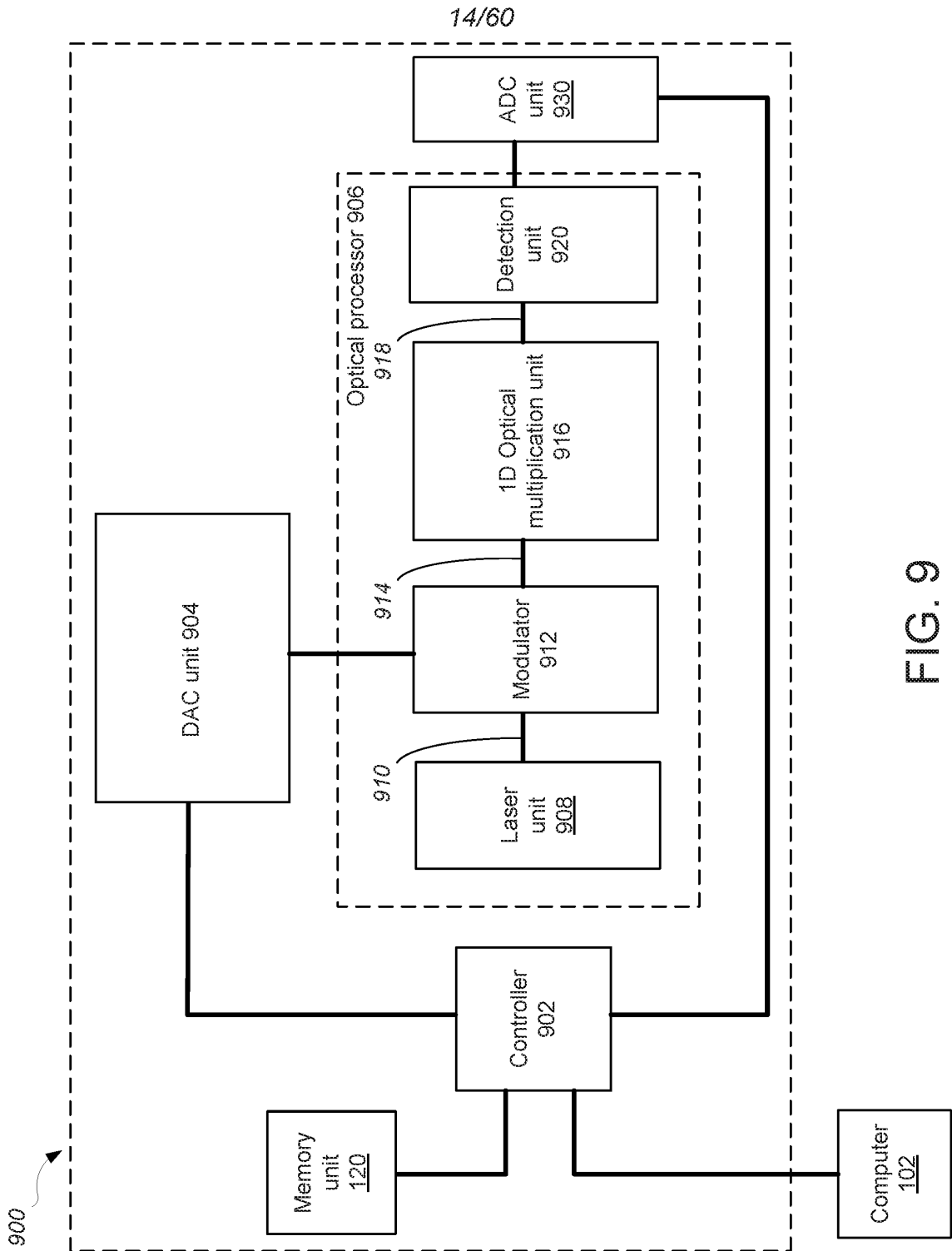


FIG. 8



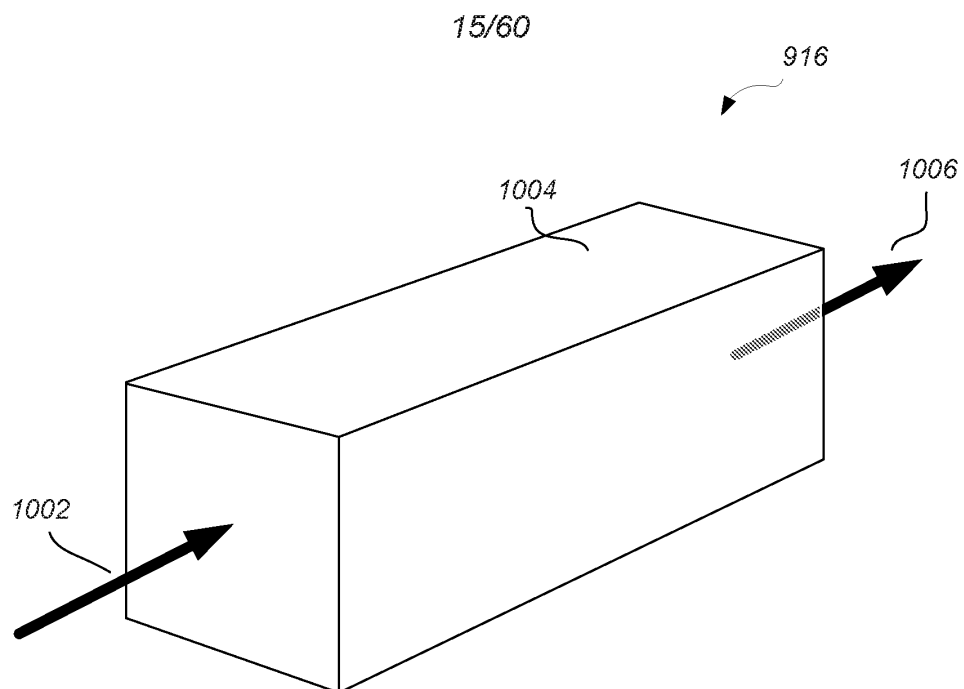


FIG. 10

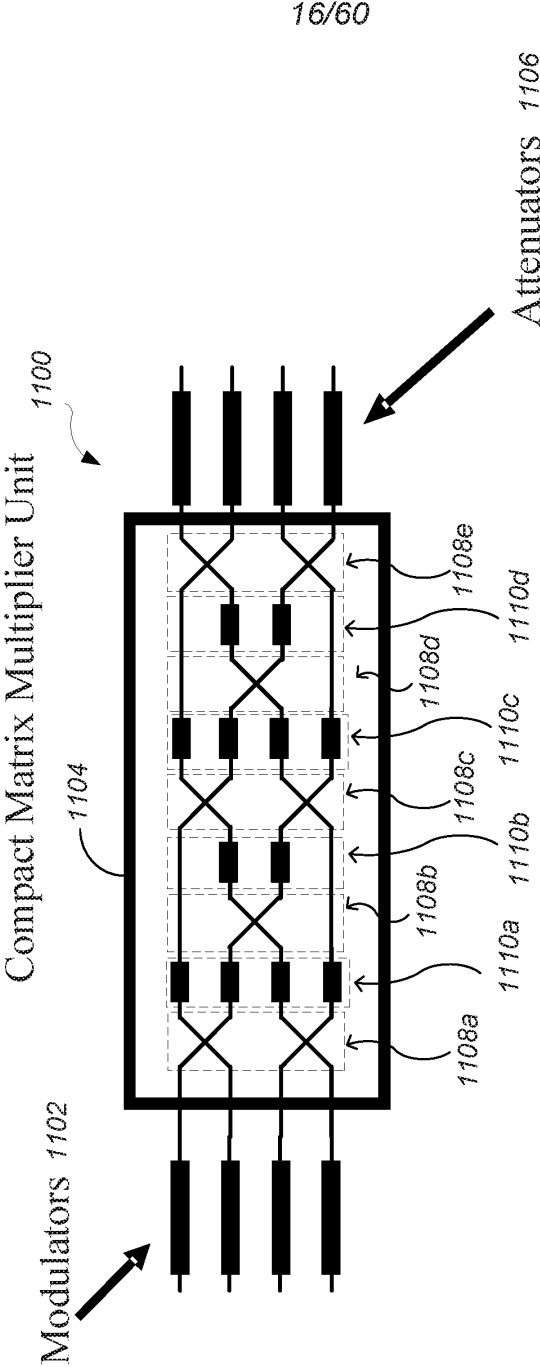


FIG. 11

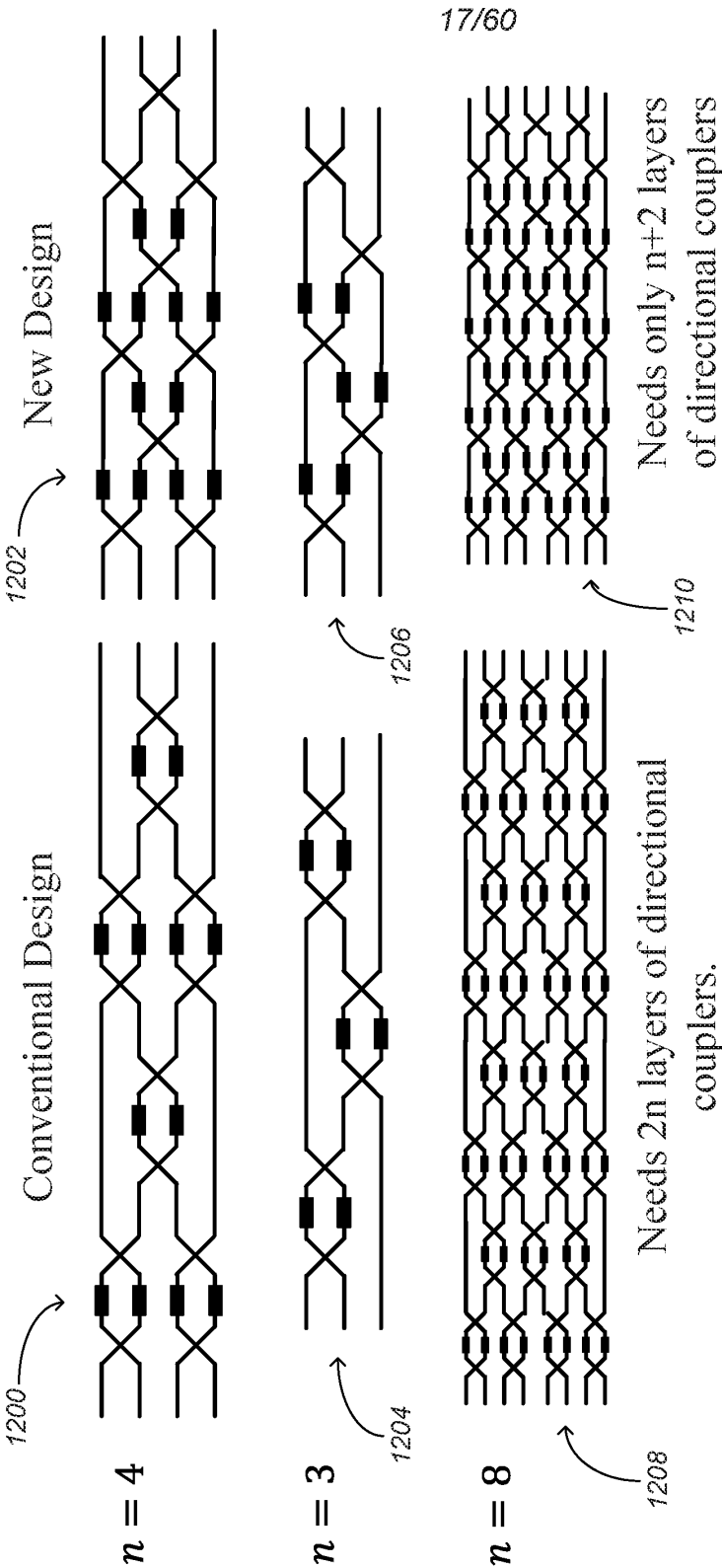
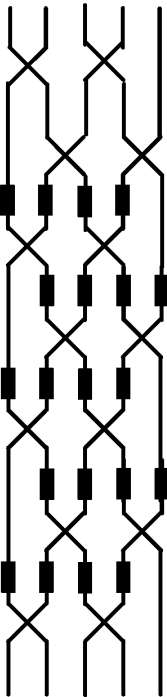


FIG. 12A



$n = 5$
1212

FIG. 12B

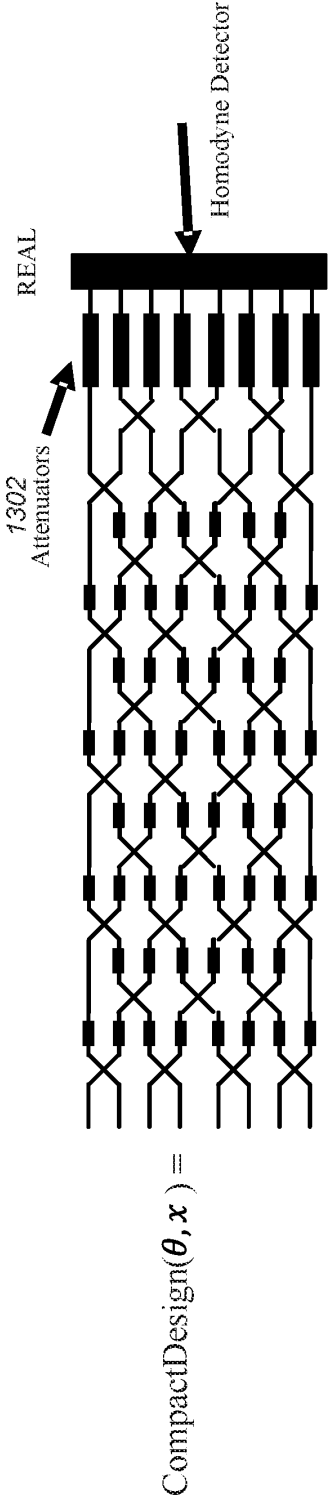
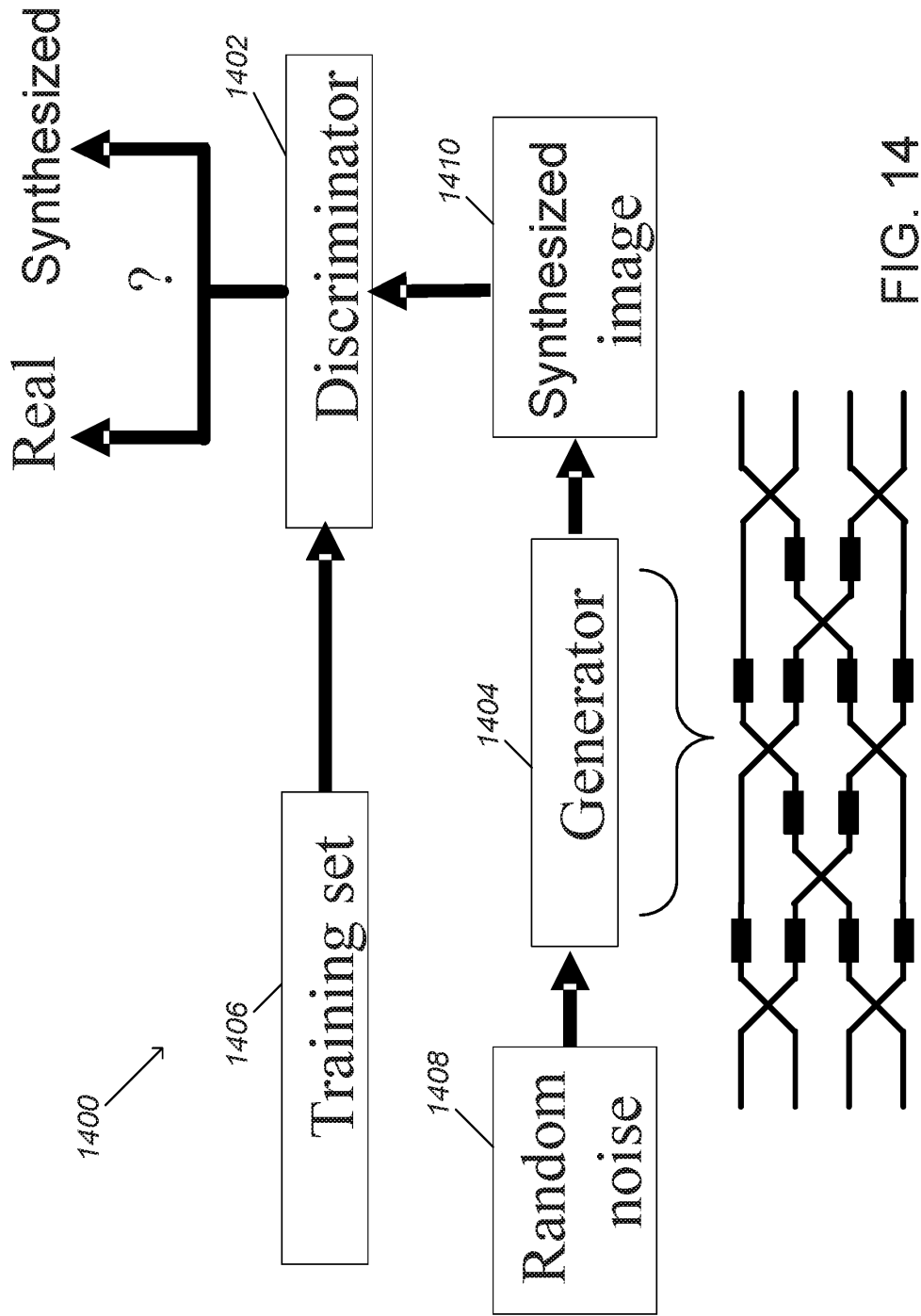


FIG. 13



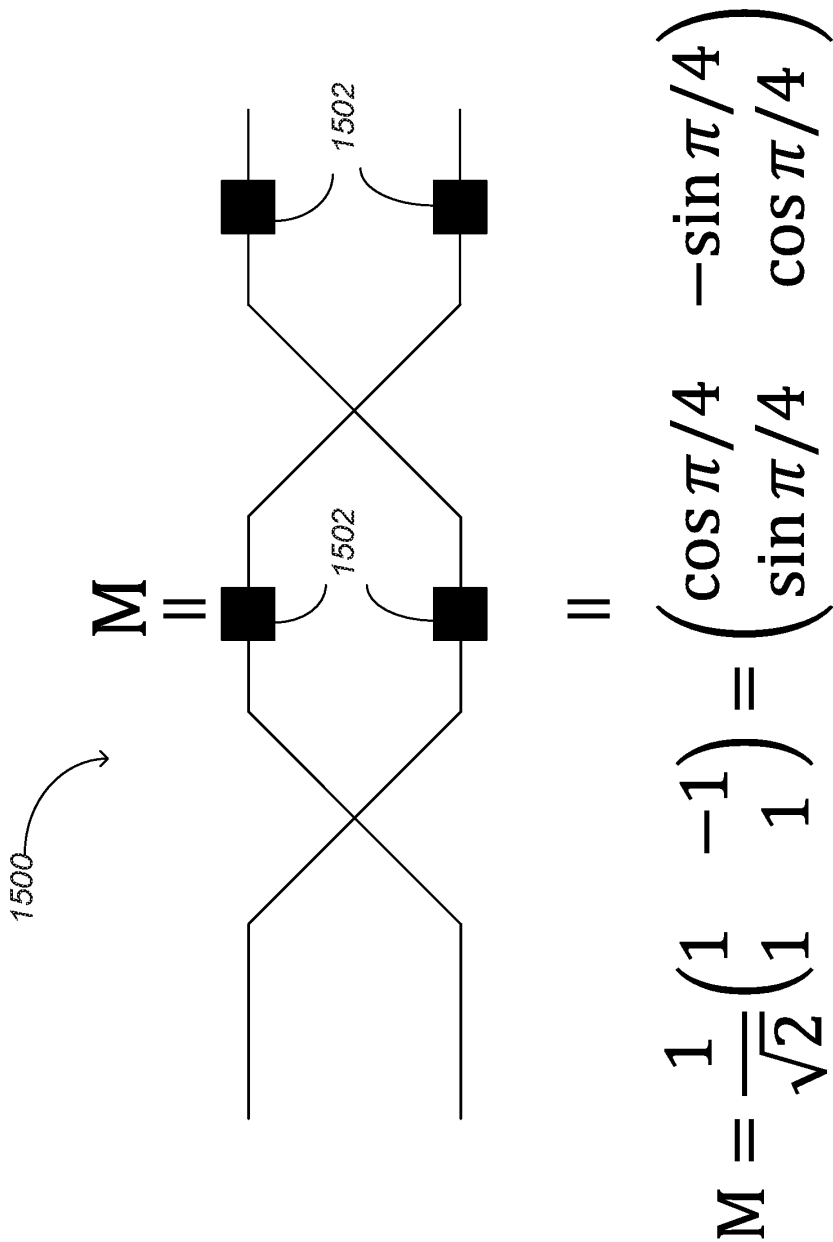


FIG. 15

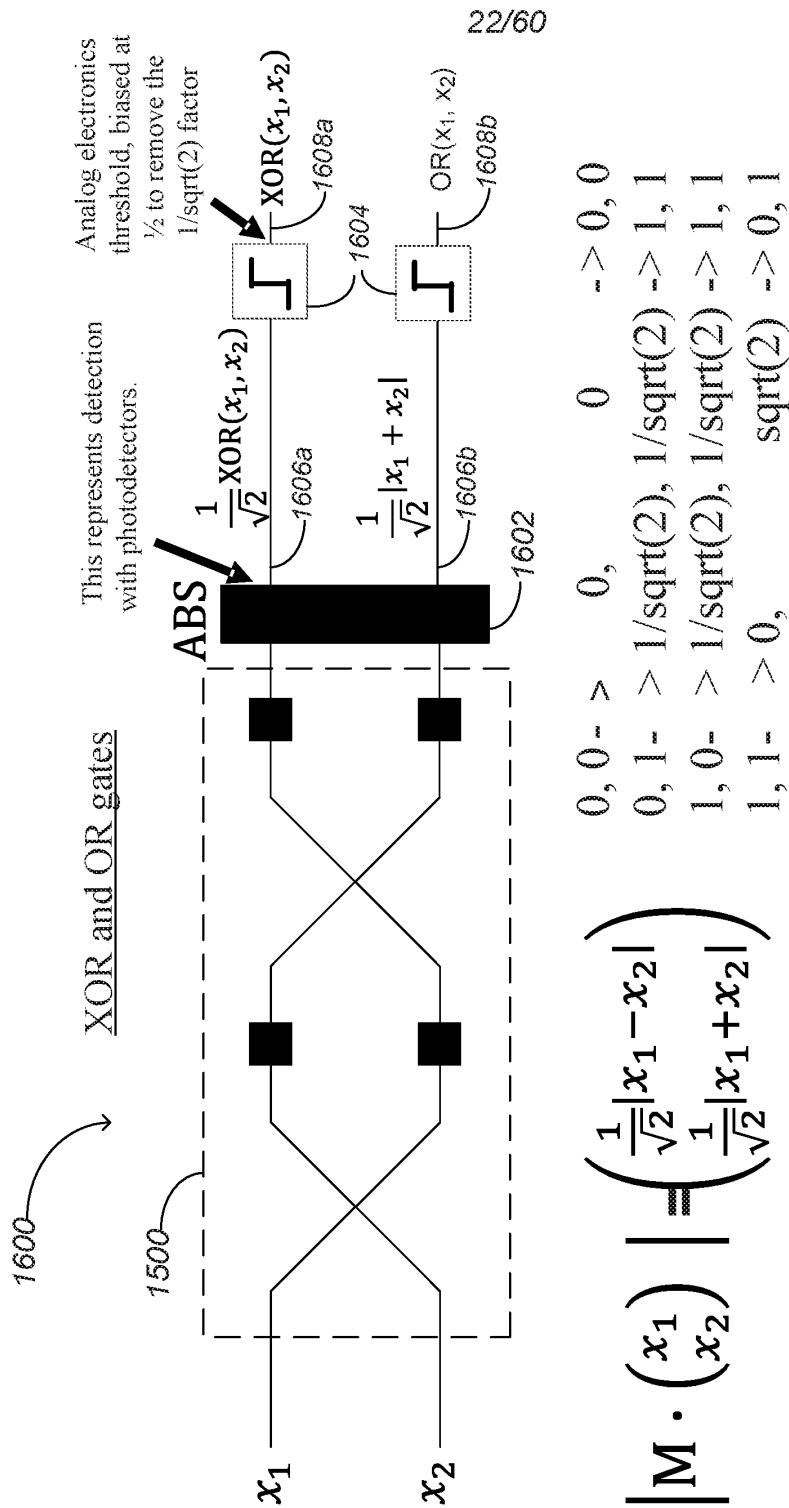


FIG. 16

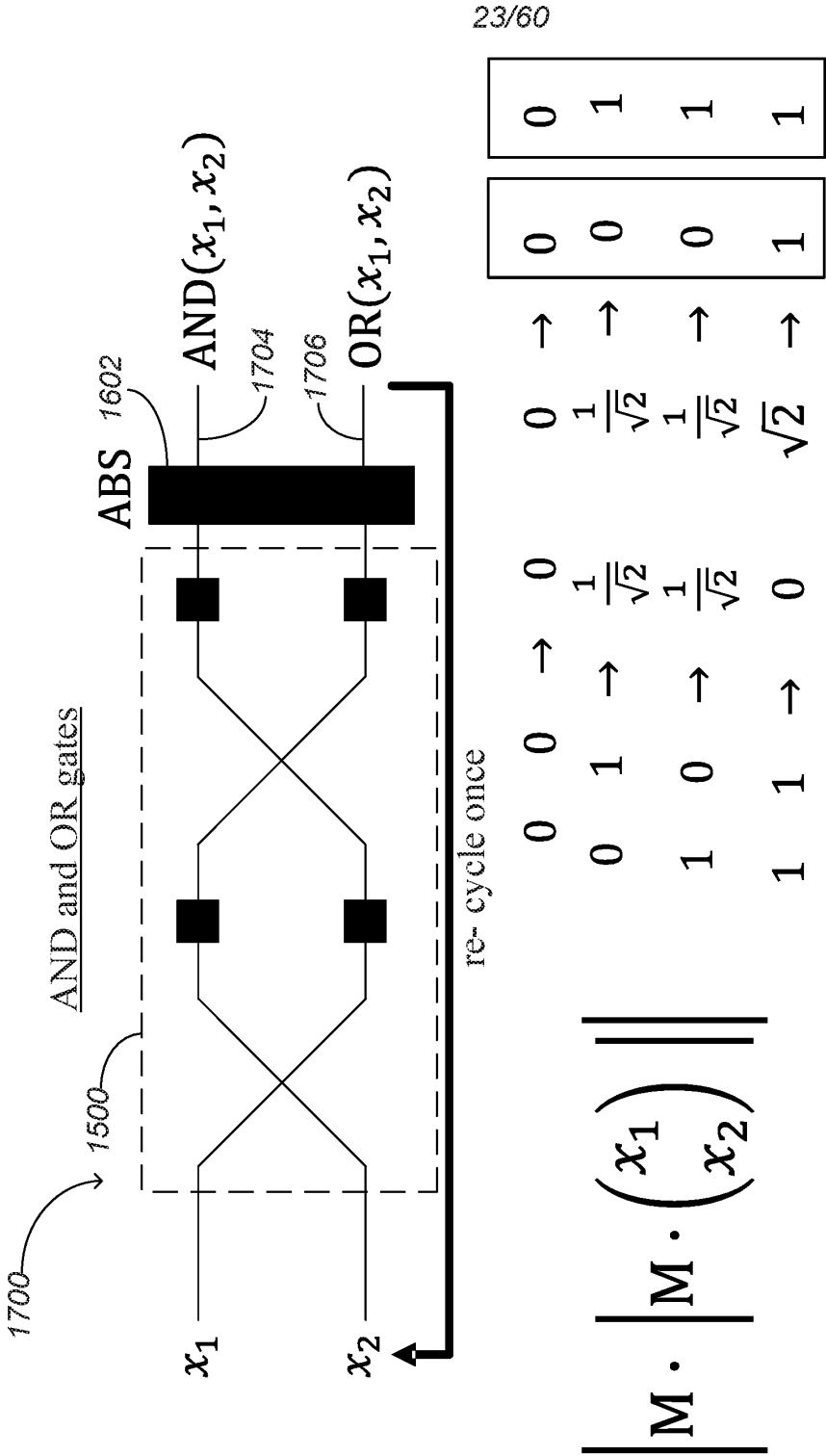


FIG. 17A

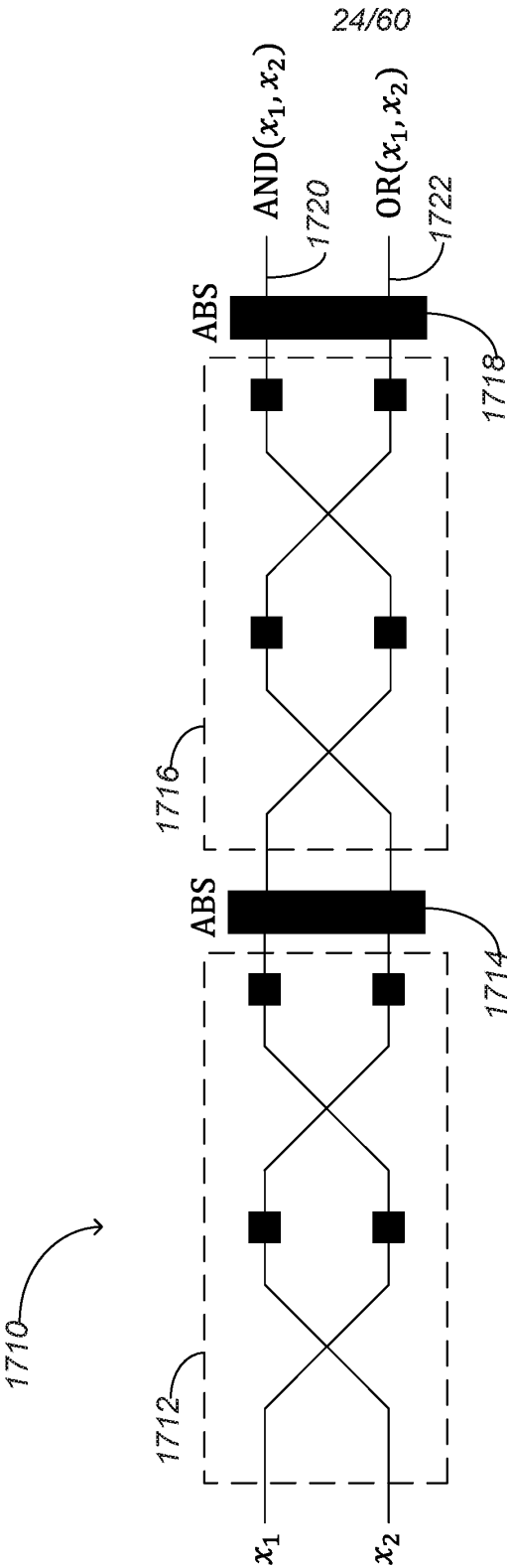


FIG. 17B

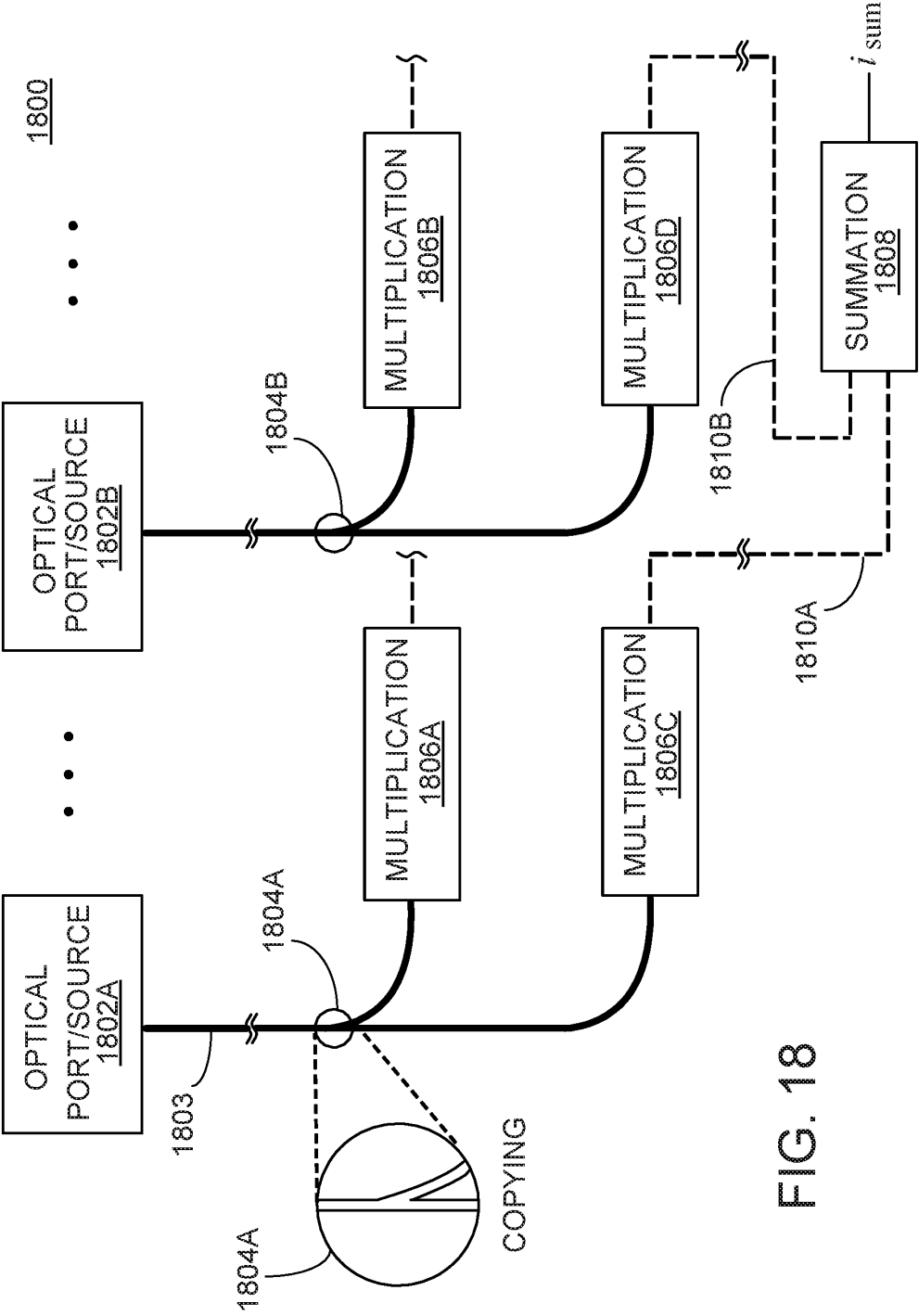


FIG. 18

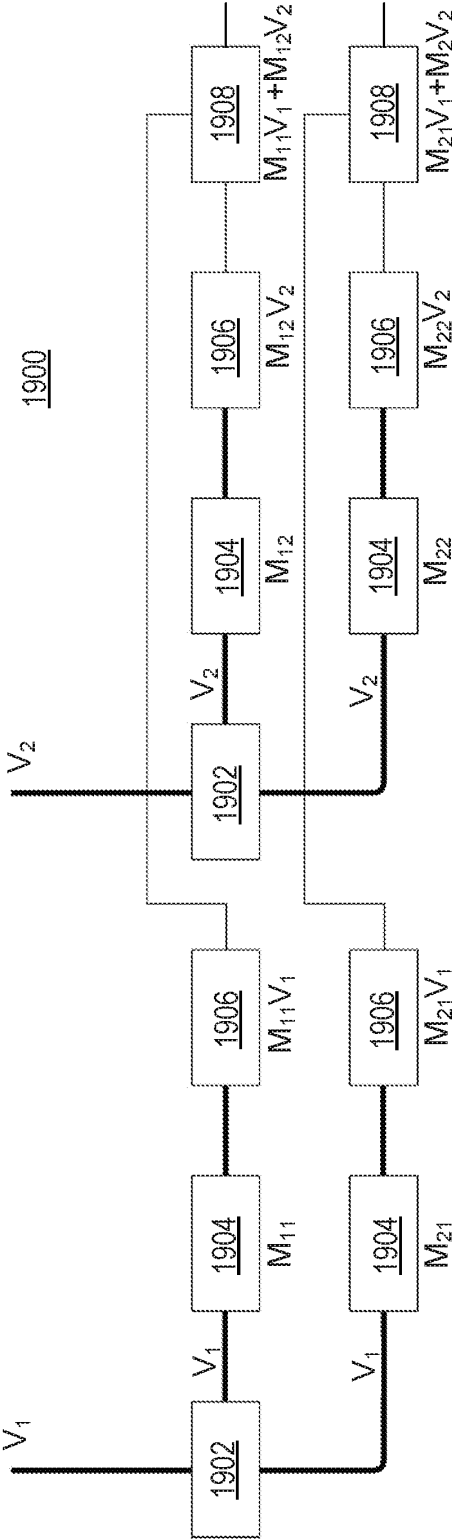


FIG. 19A

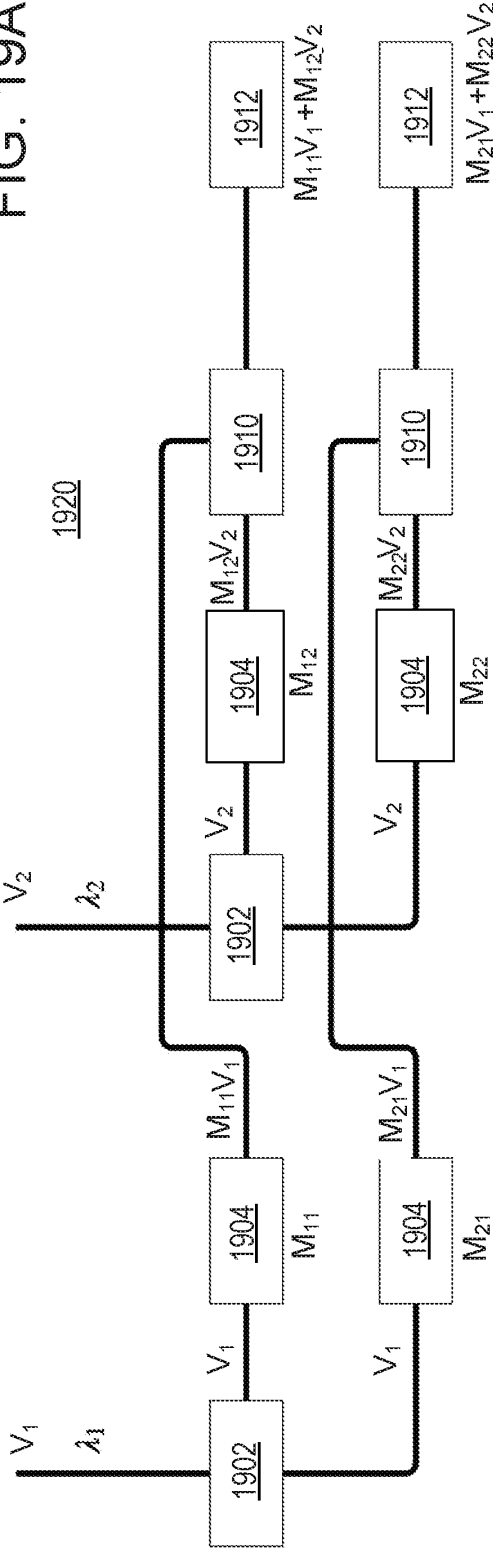


FIG. 19B

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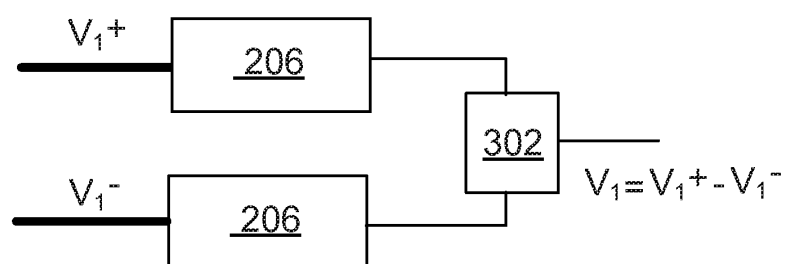


FIG. 20A

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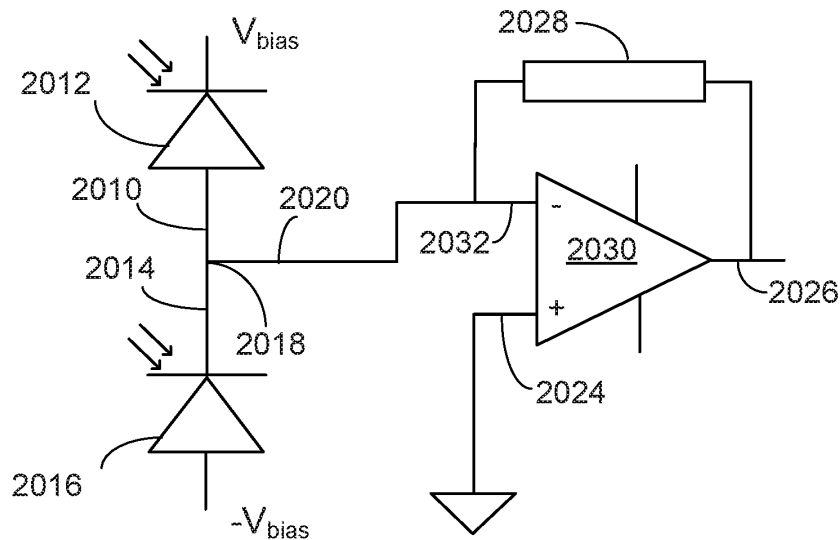


FIG. 20B

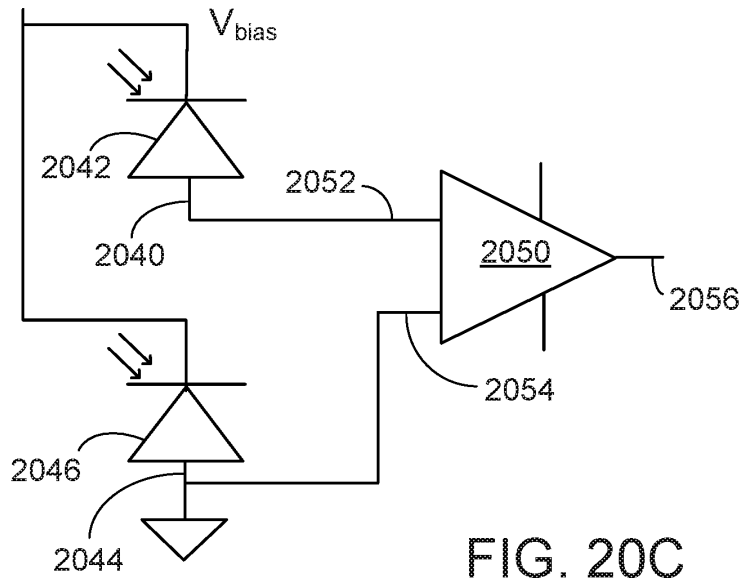


FIG. 20C

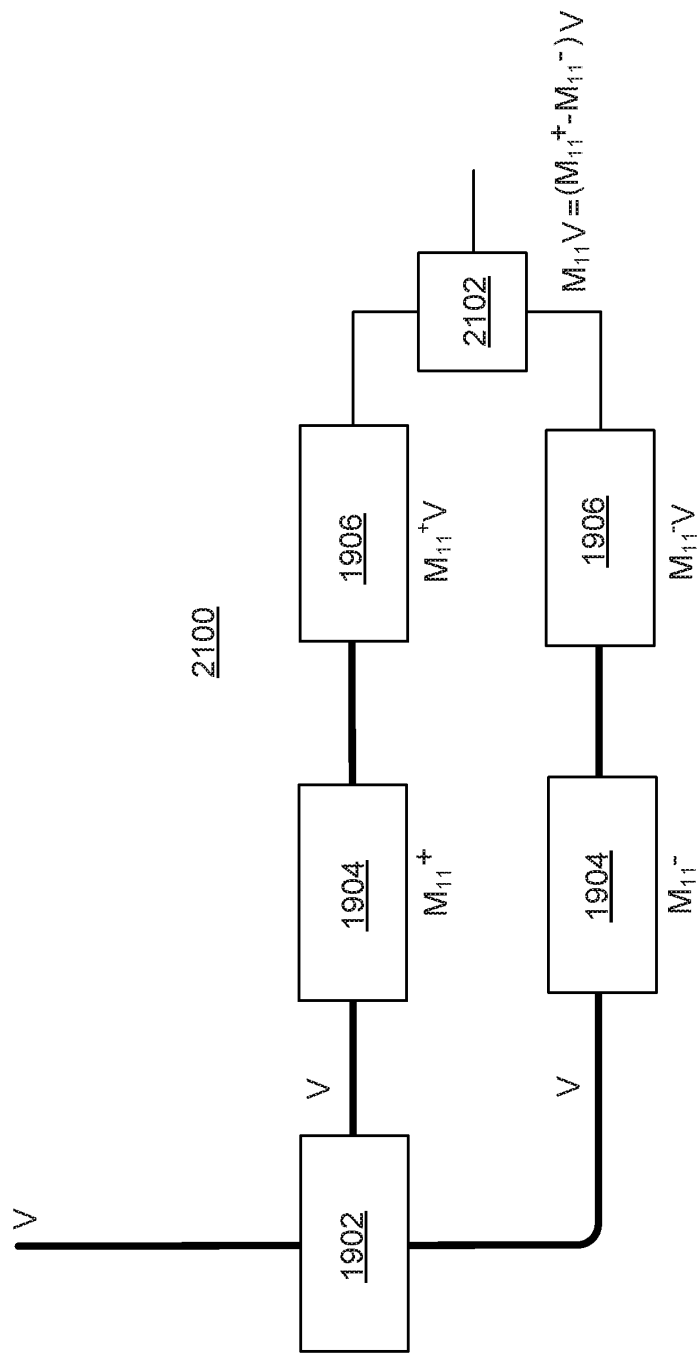
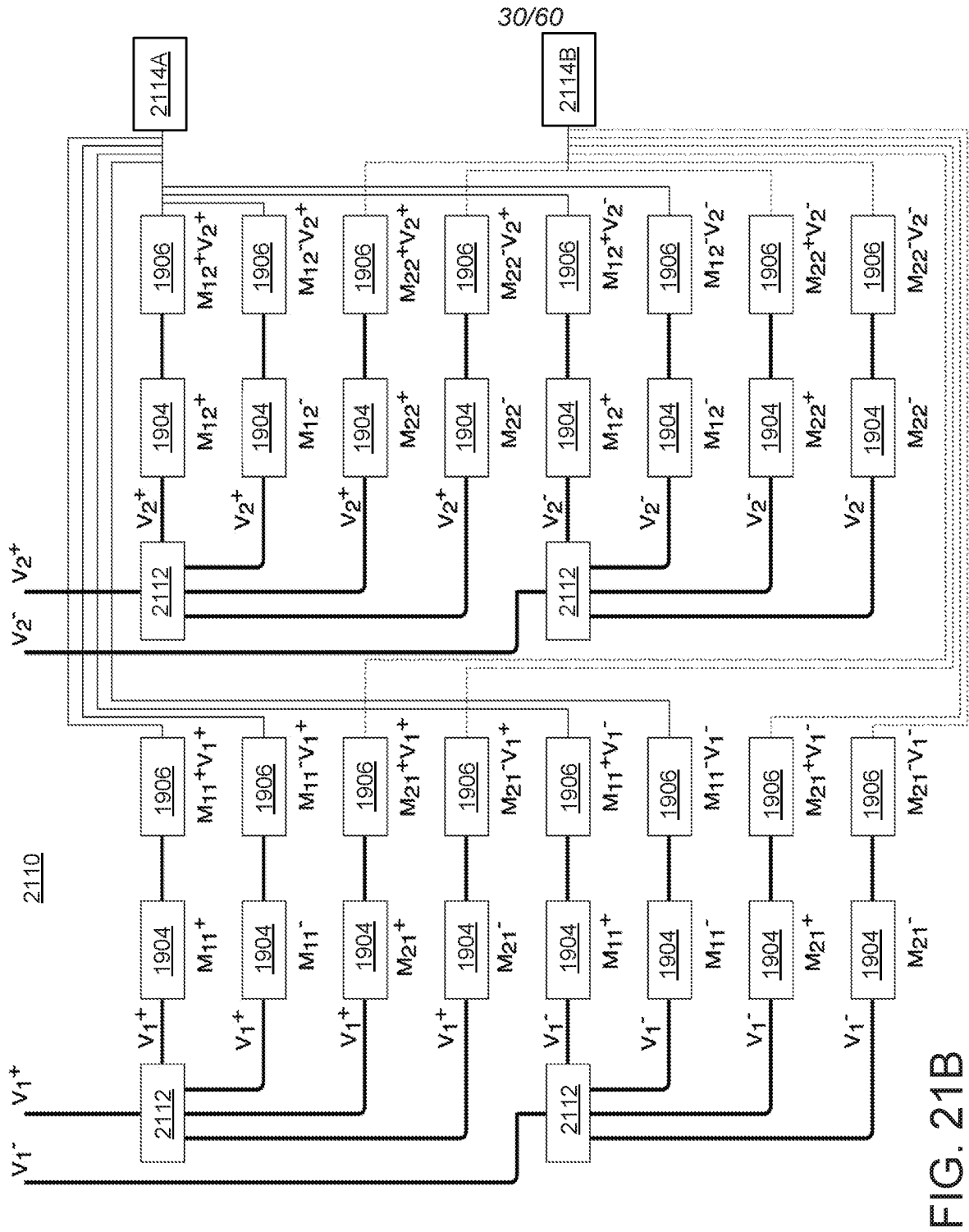


FIG. 21A



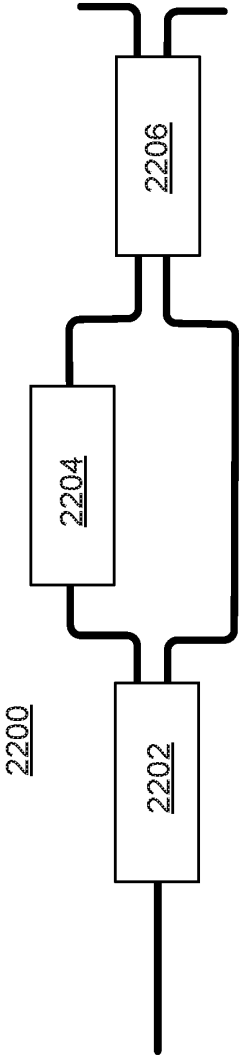


FIG. 22A

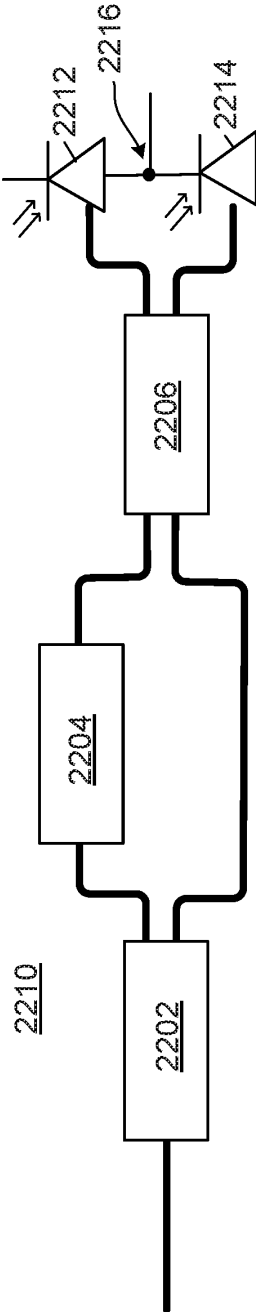


FIG. 22B

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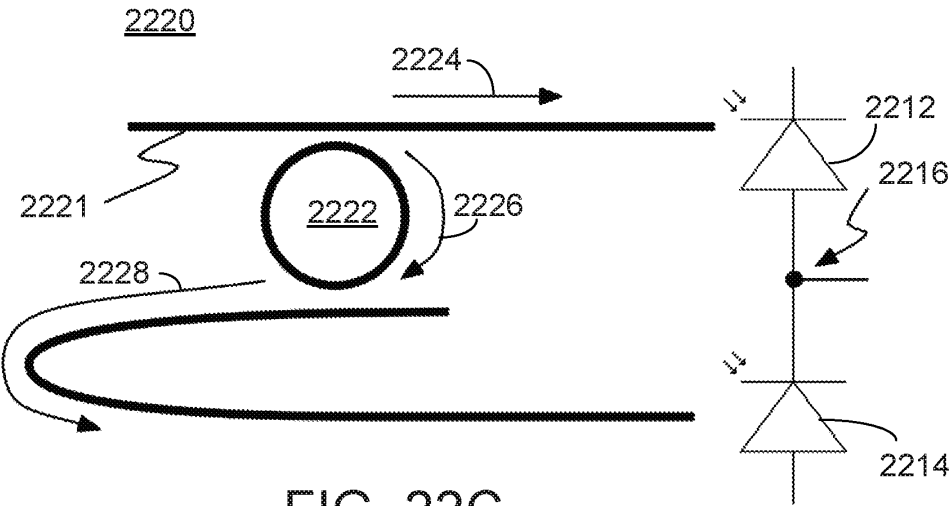


FIG. 22C

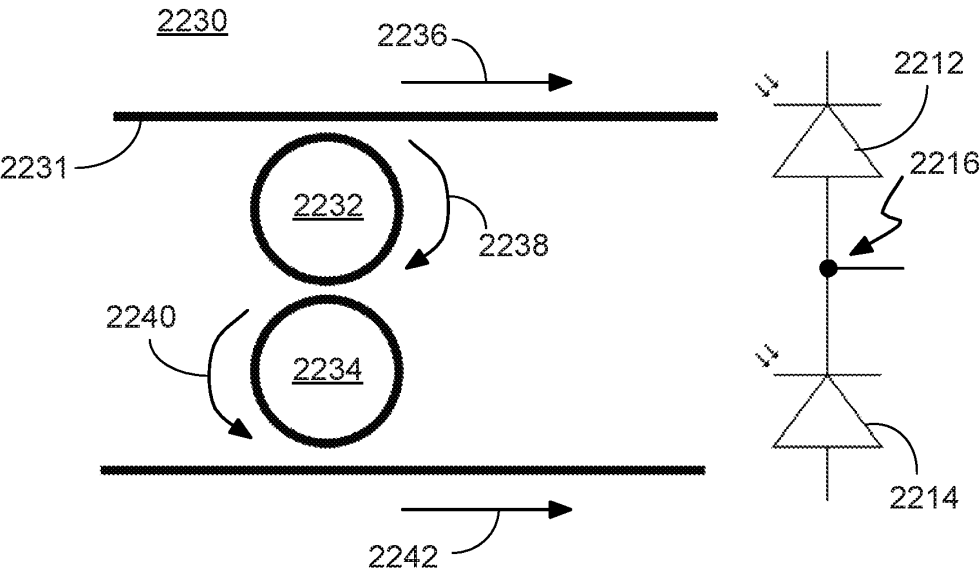


FIG. 22D

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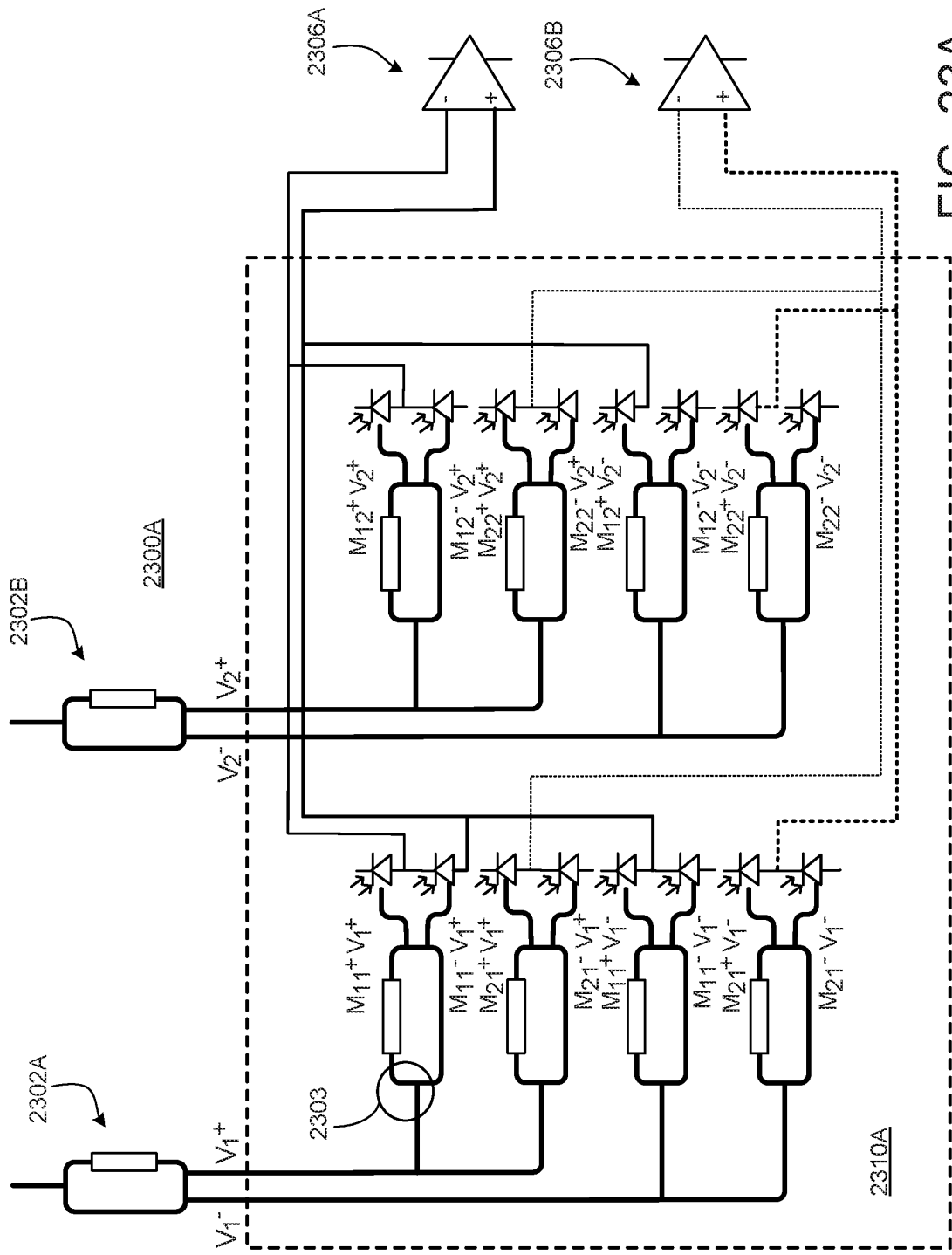


FIG. 23A

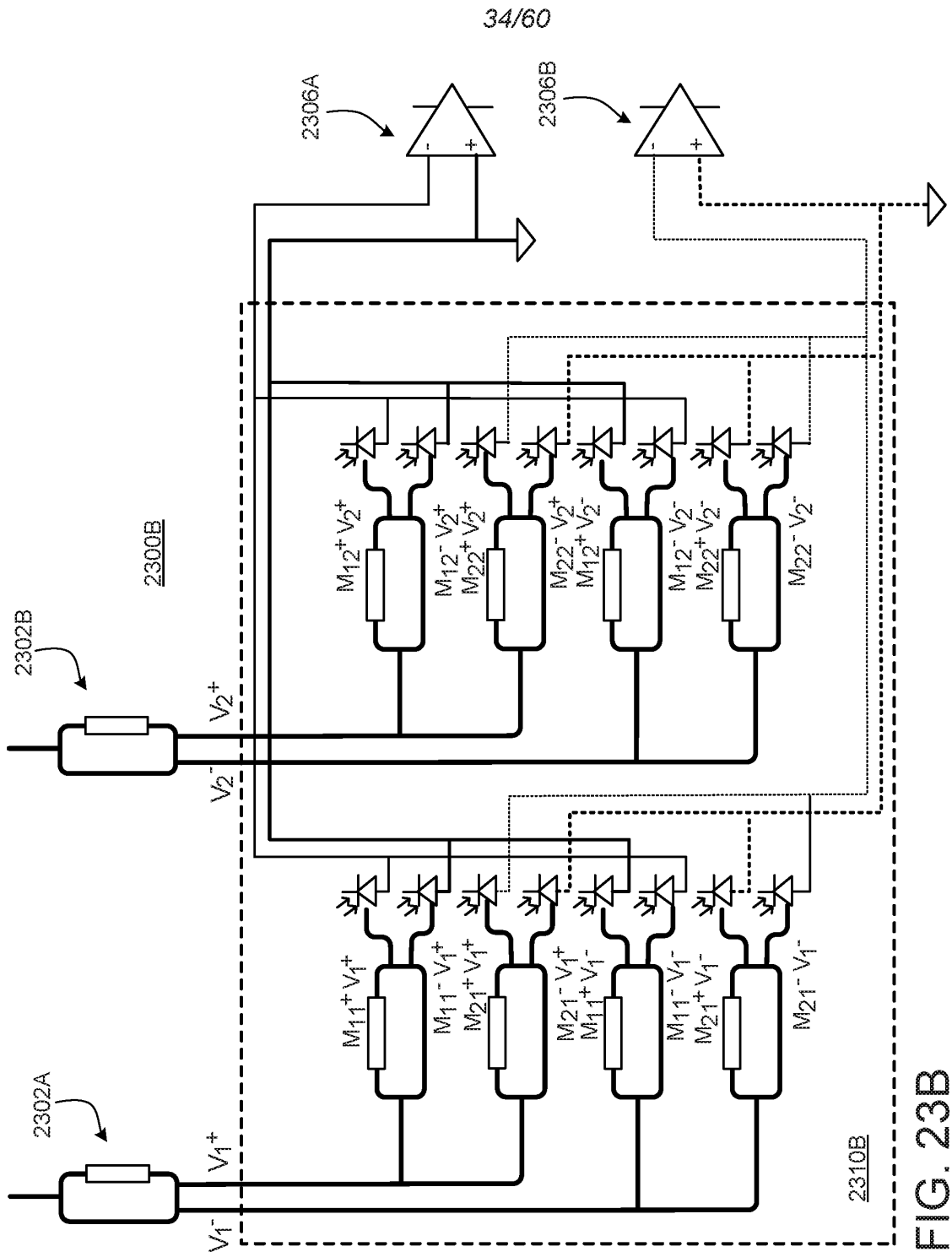


FIG. 23B

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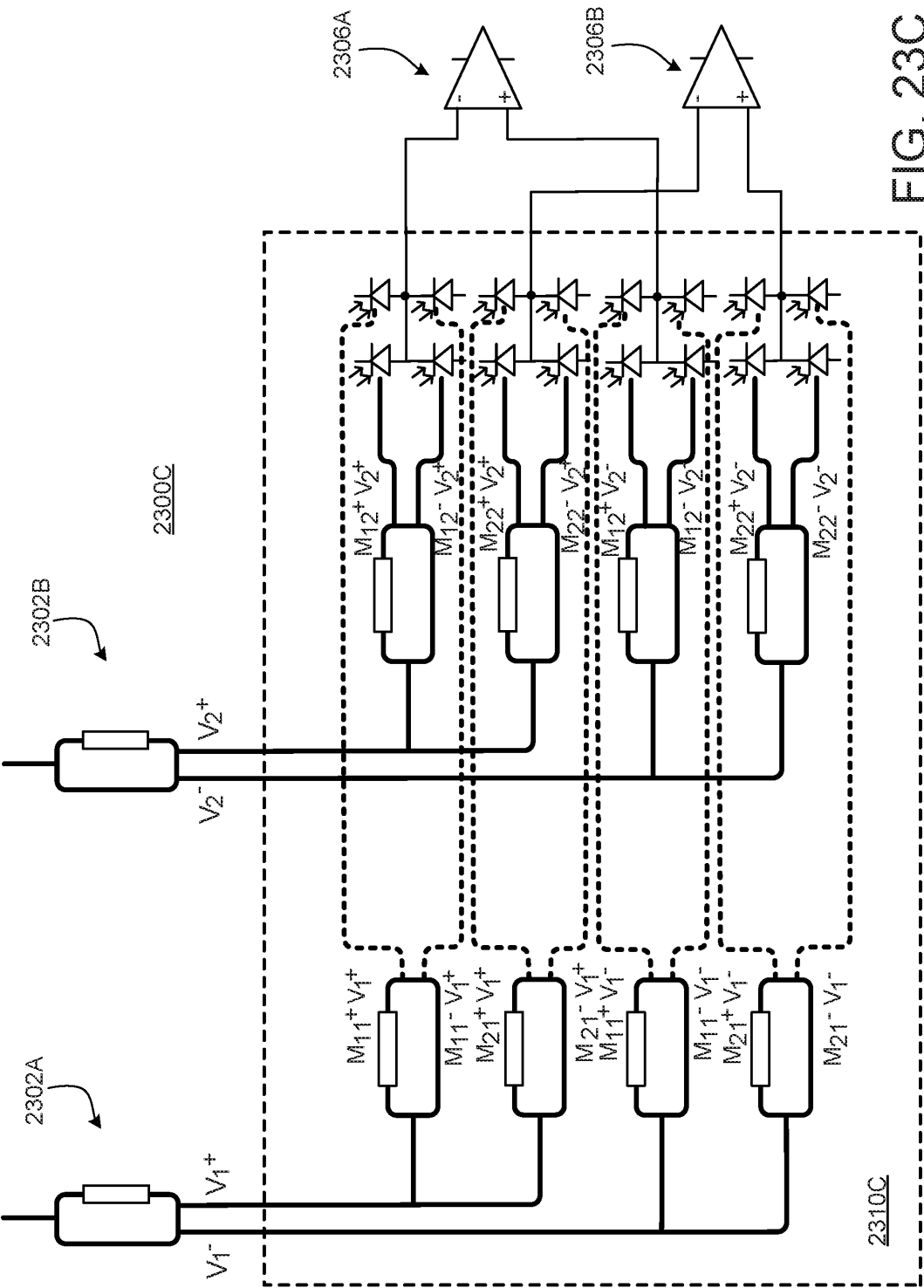


FIG. 23C

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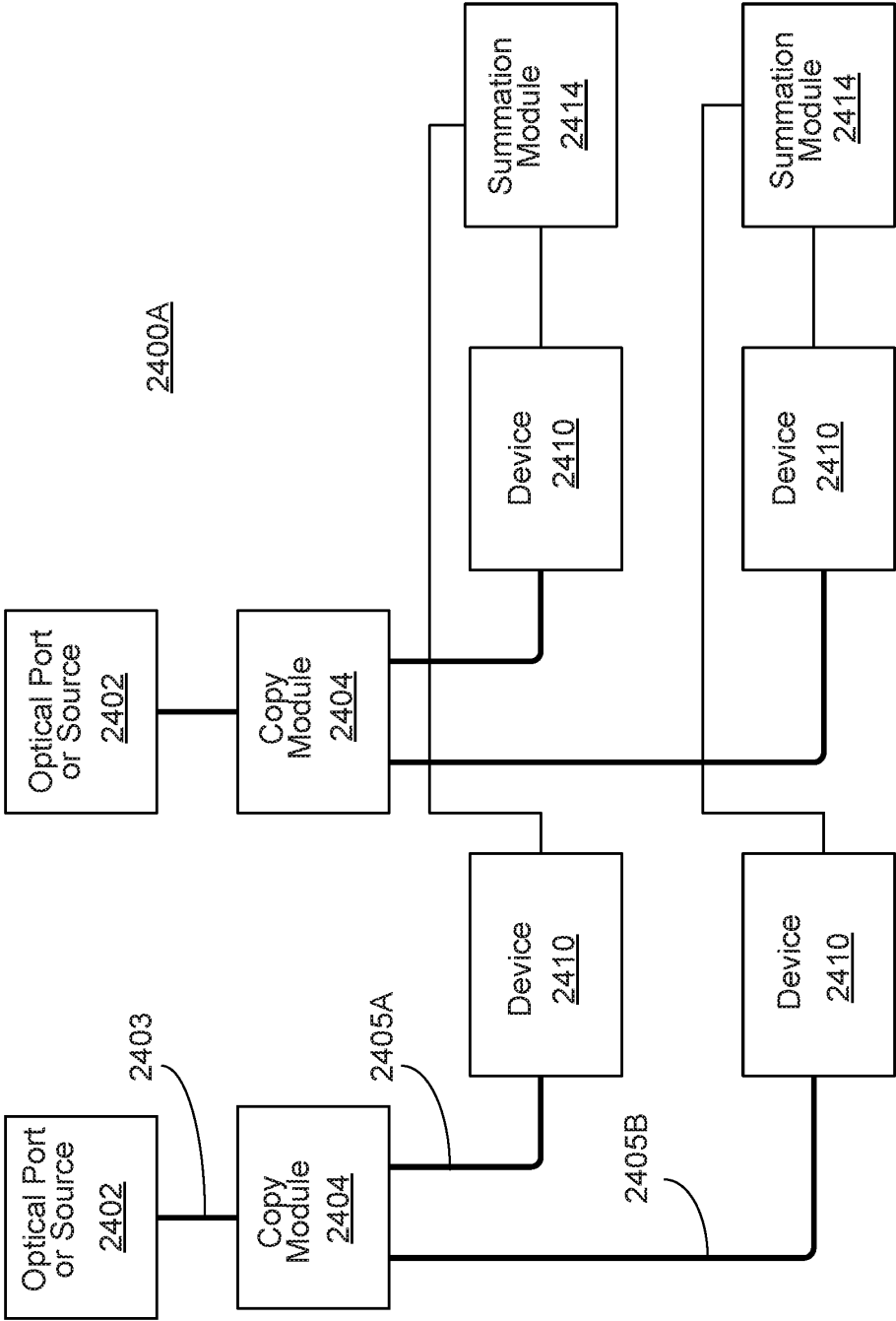


FIG. 24A

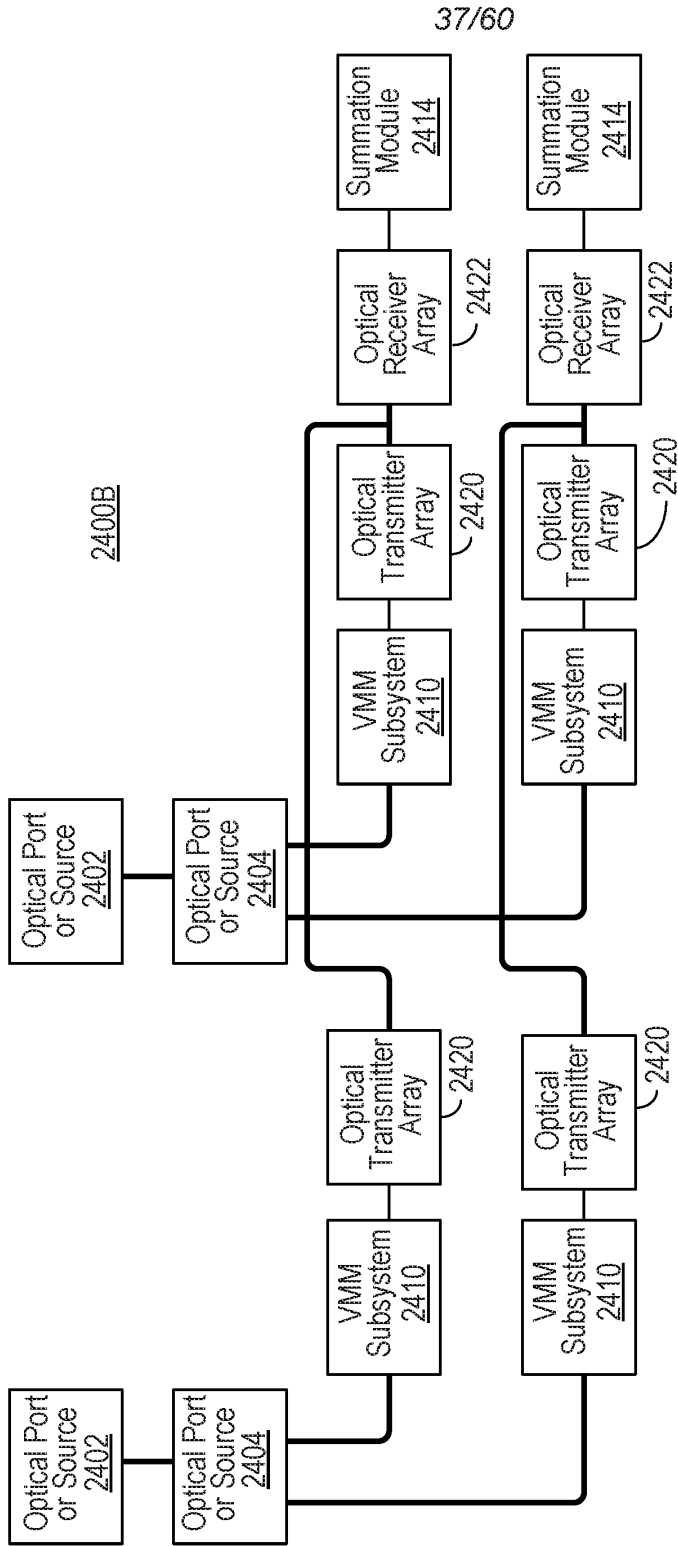


FIG. 24B

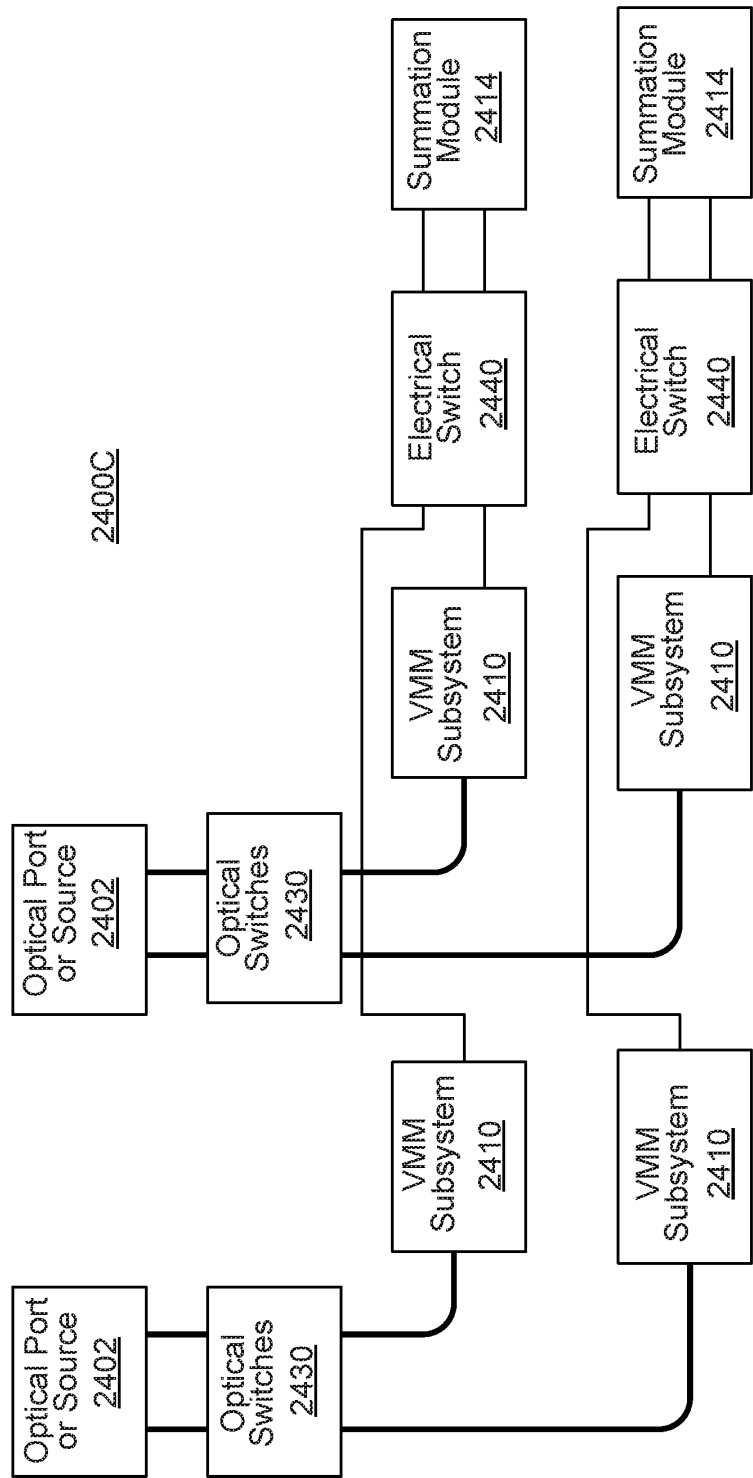


FIG. 24C

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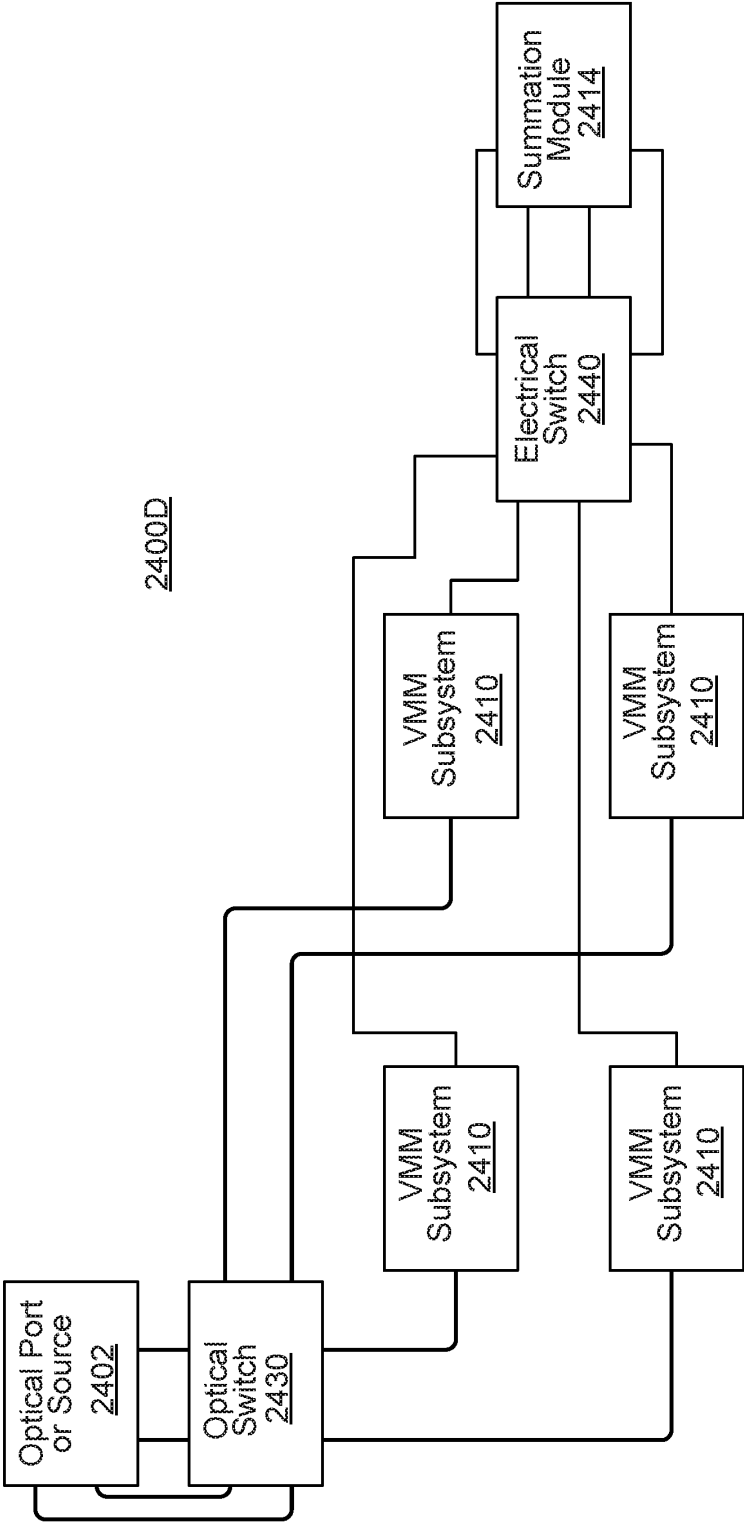


FIG. 24D

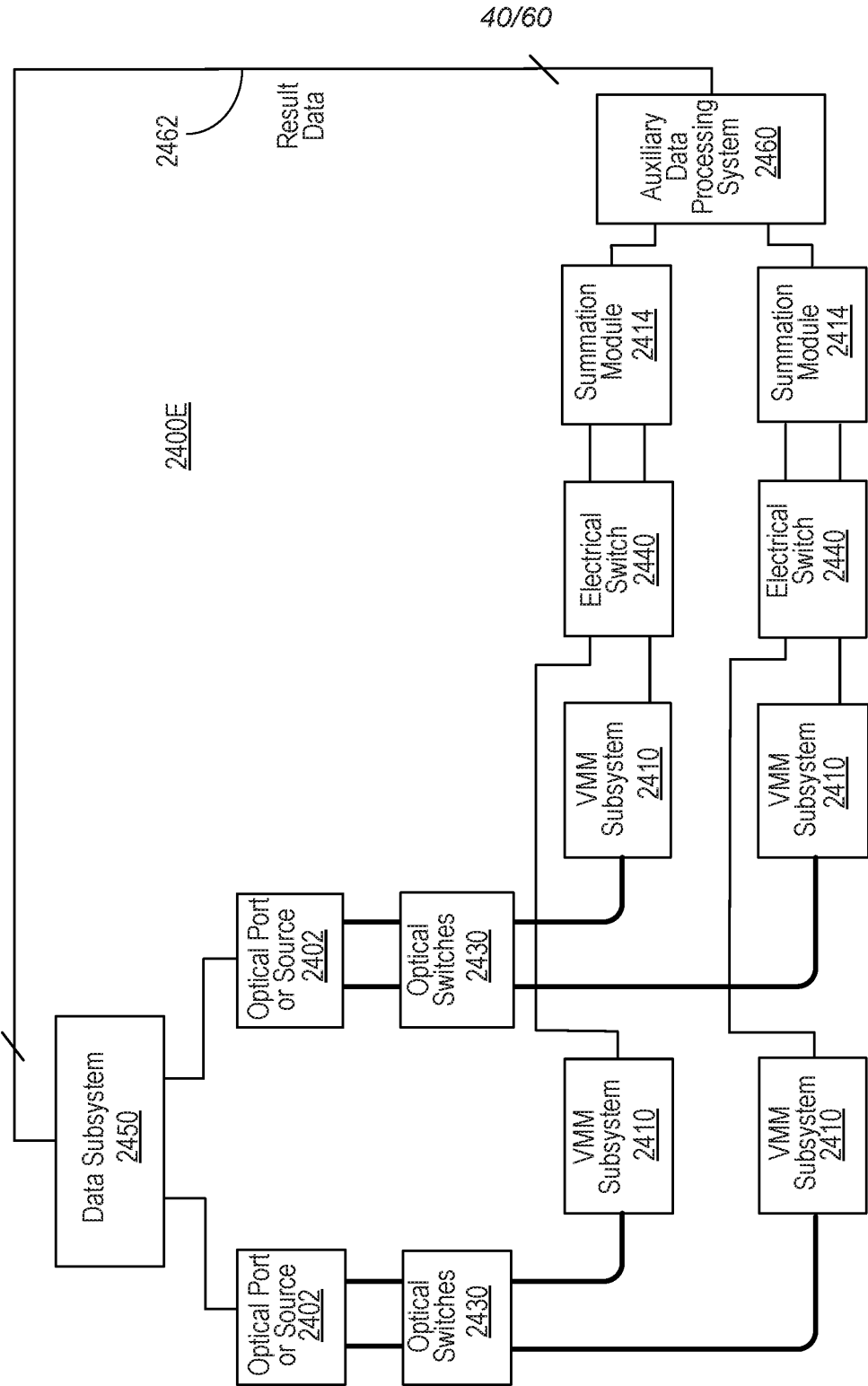


FIG. 24E

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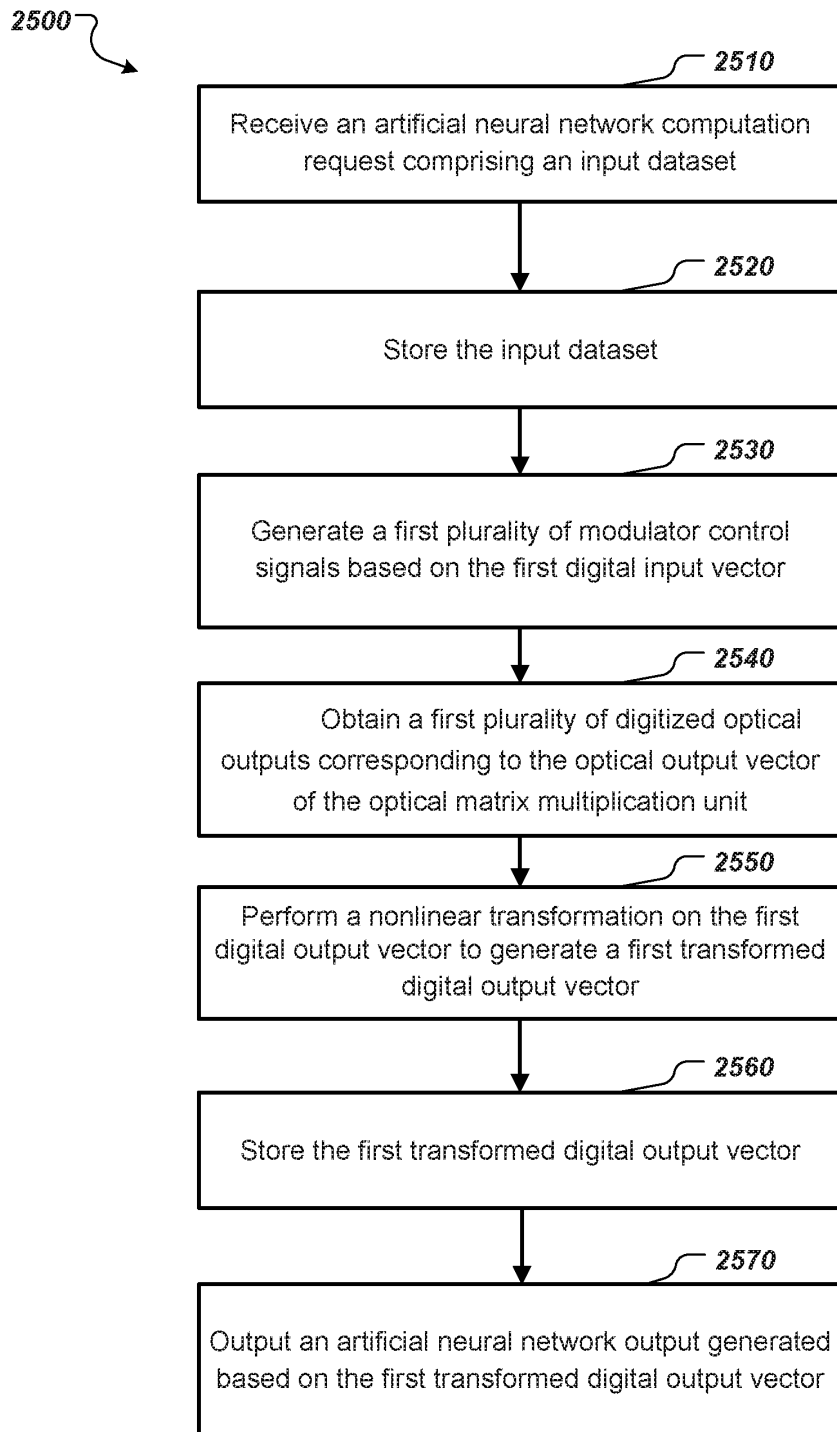


FIG. 25

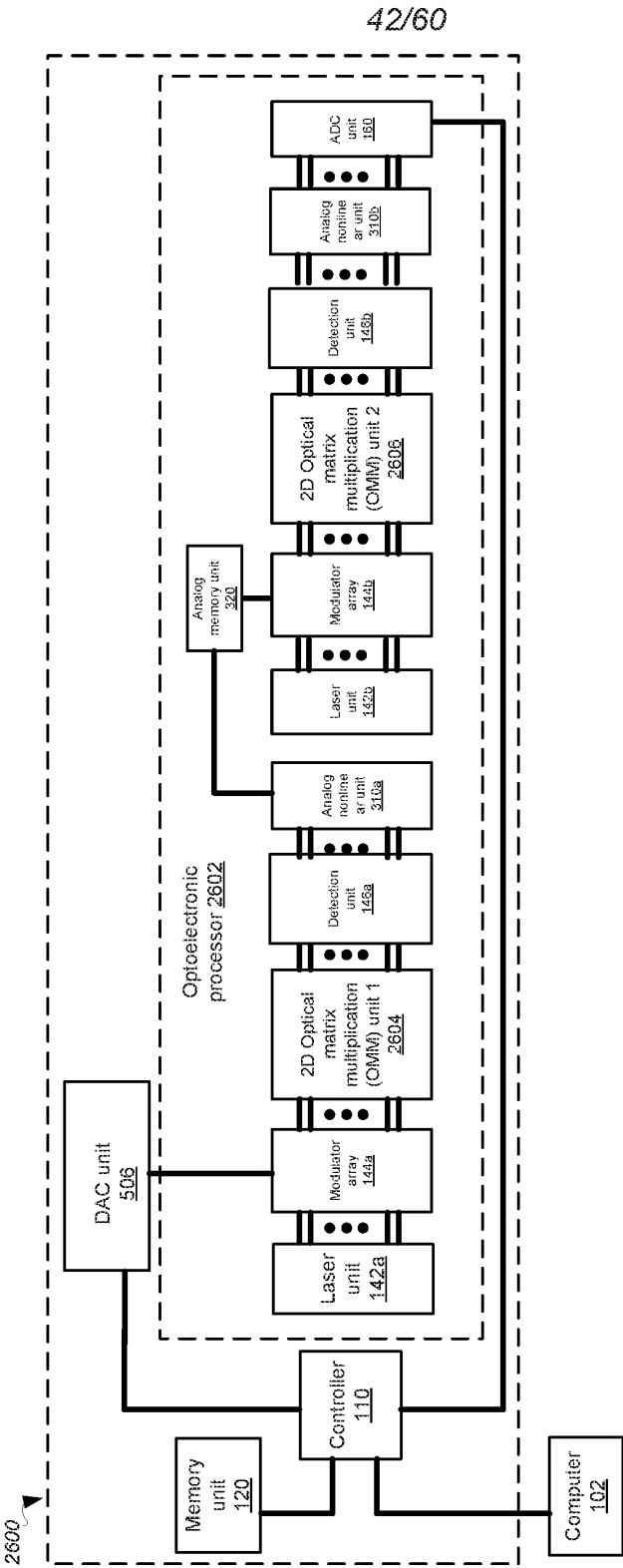
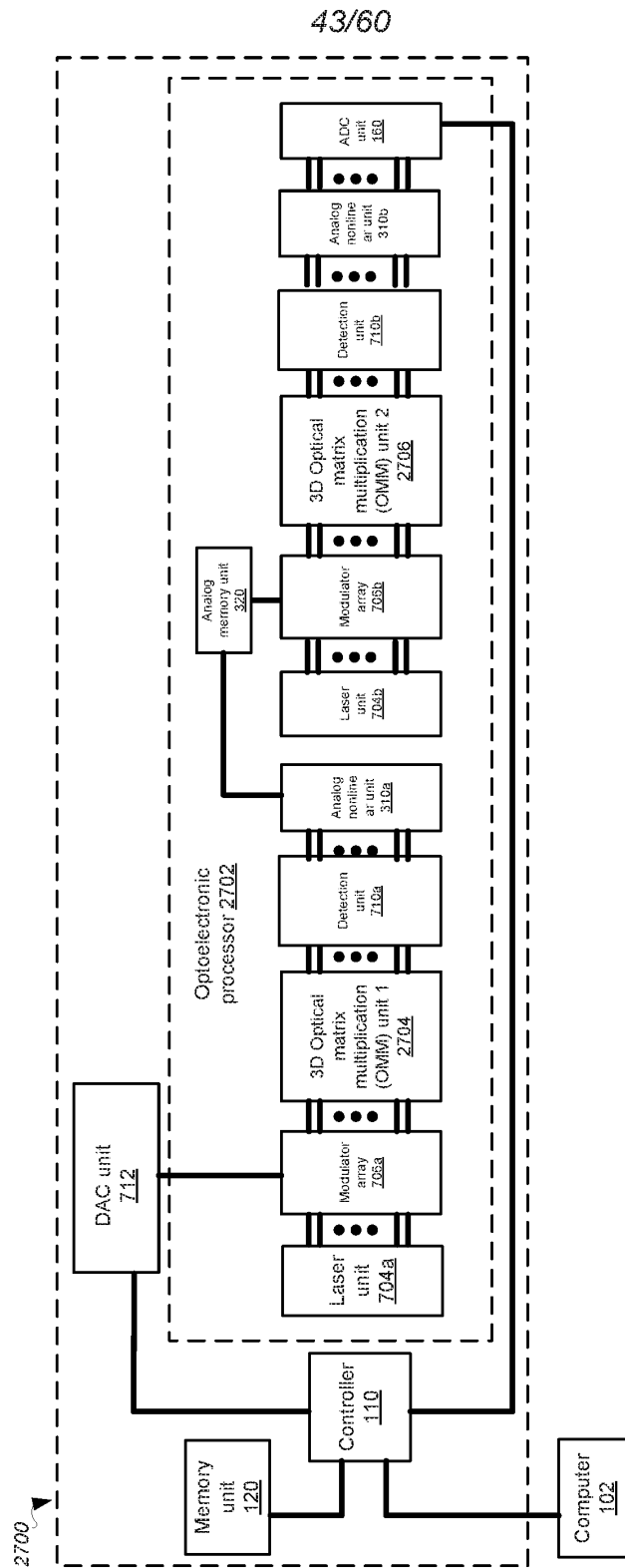
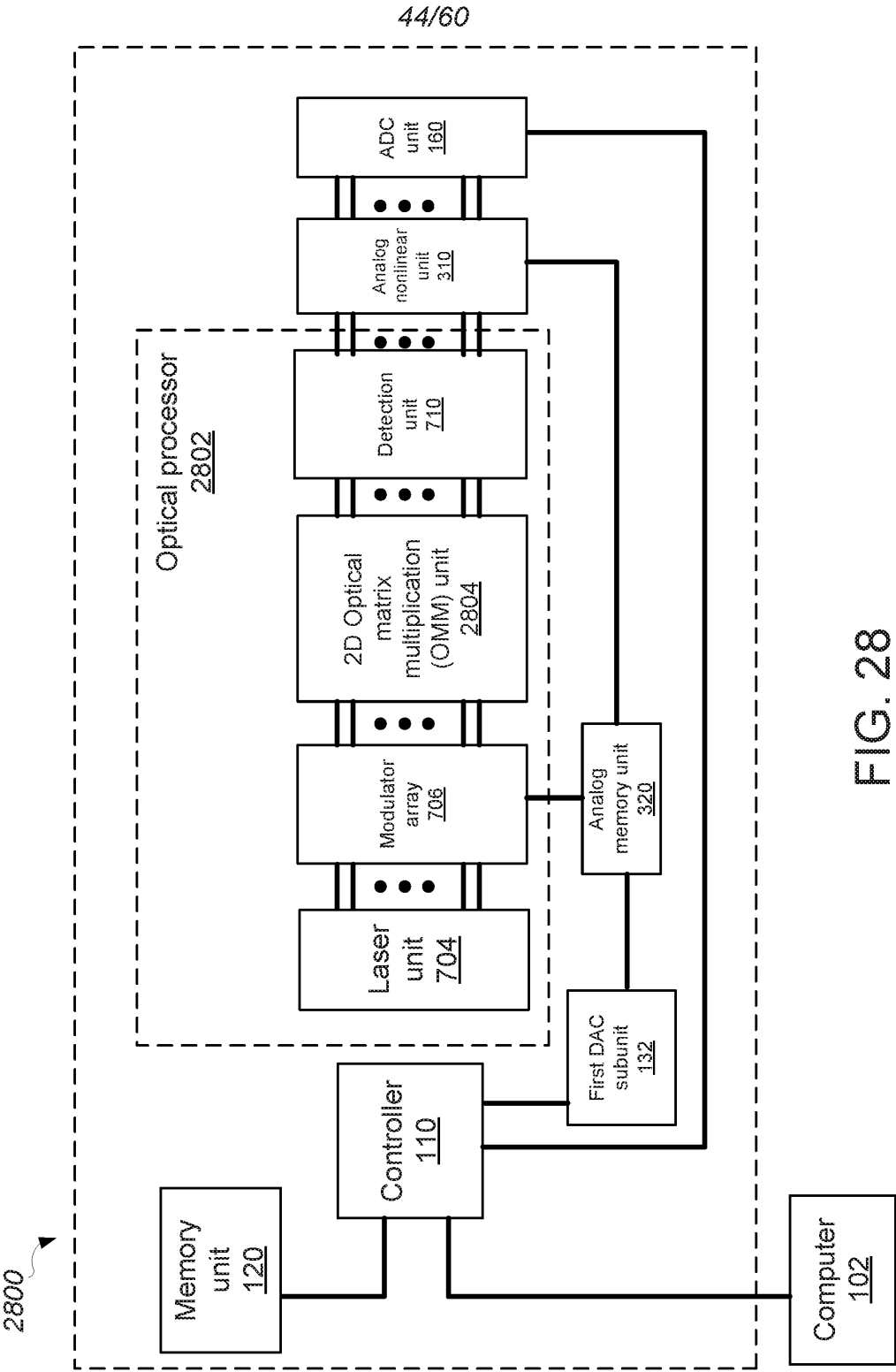


FIG. 26



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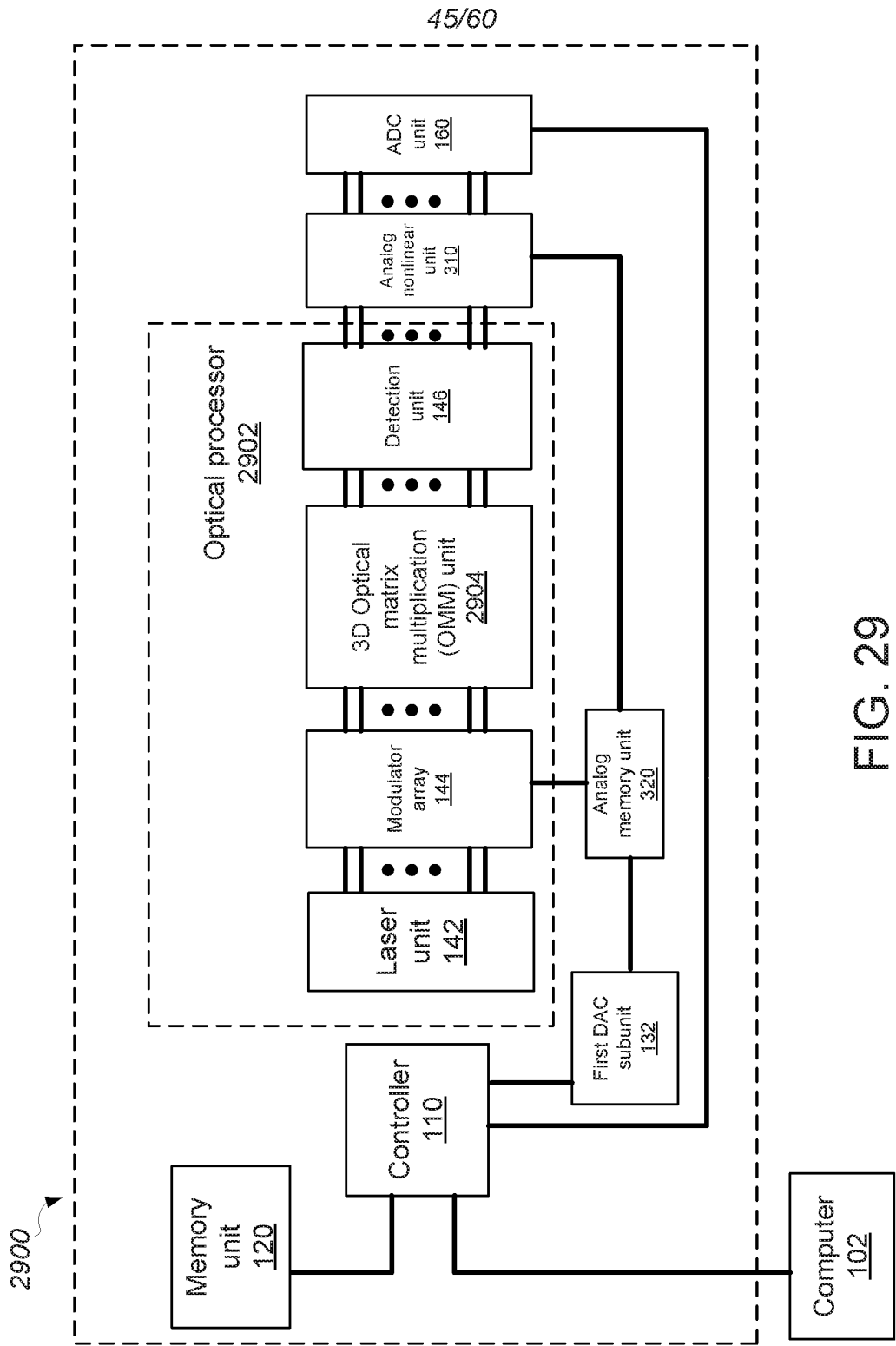


FIG. 29

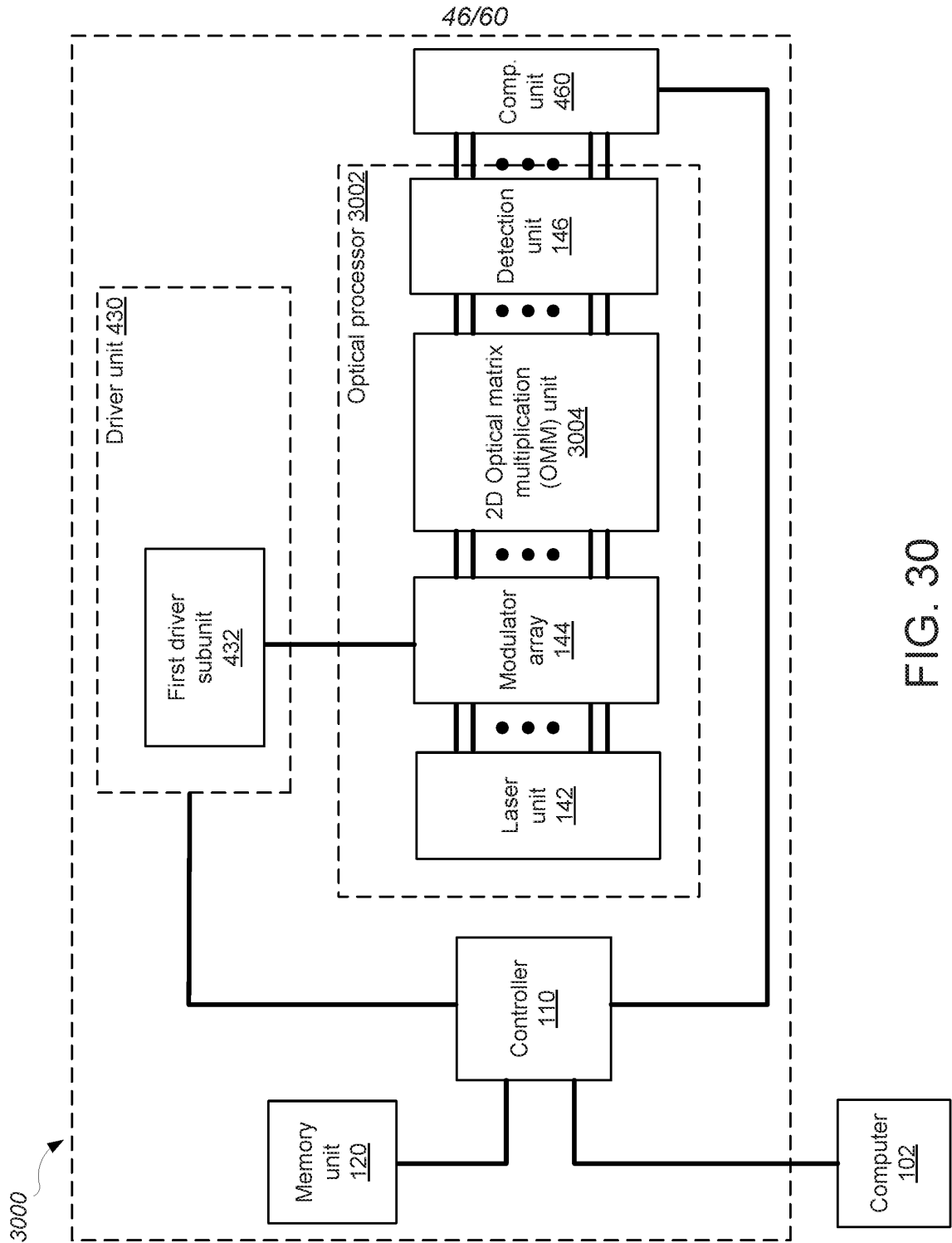


FIG. 30

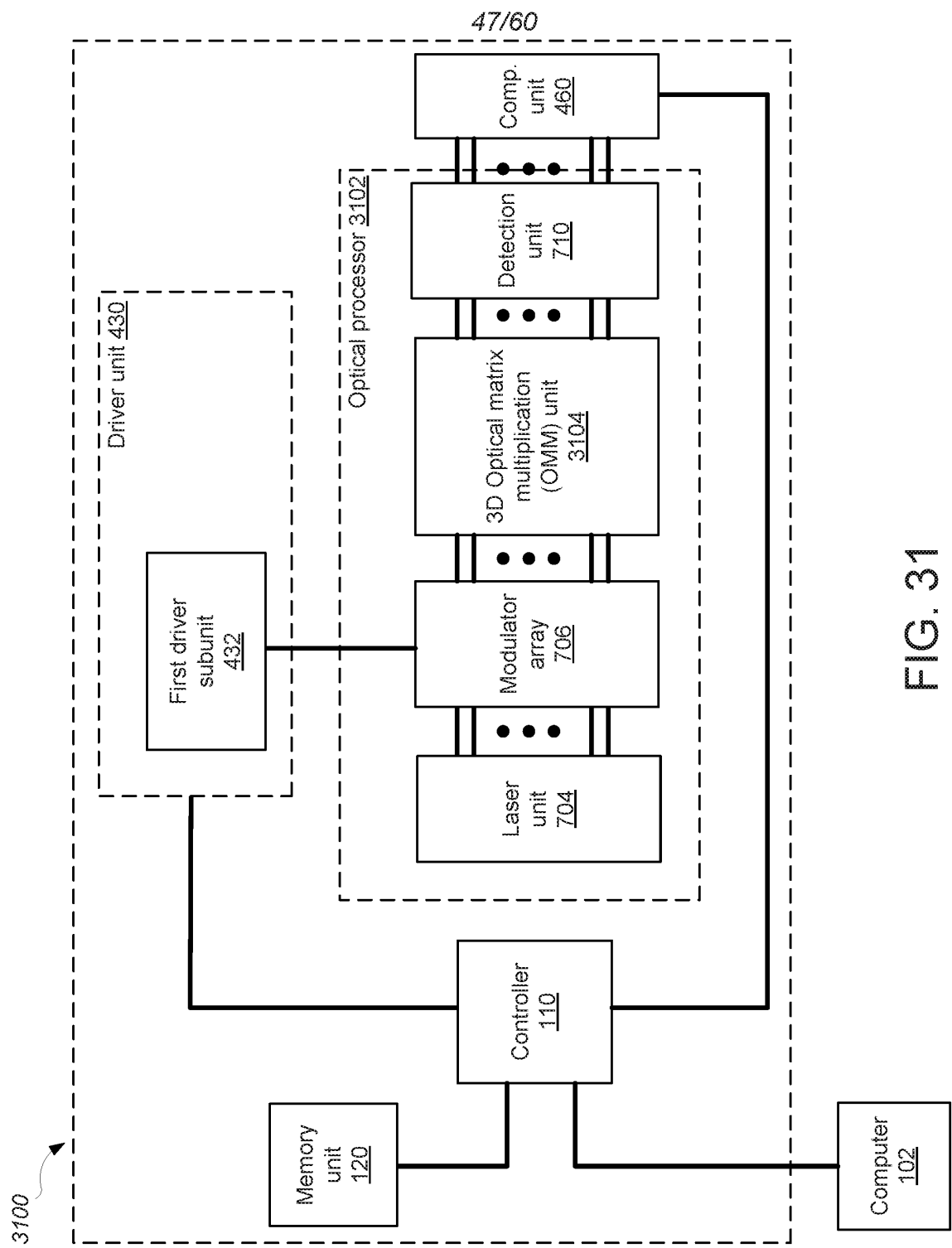
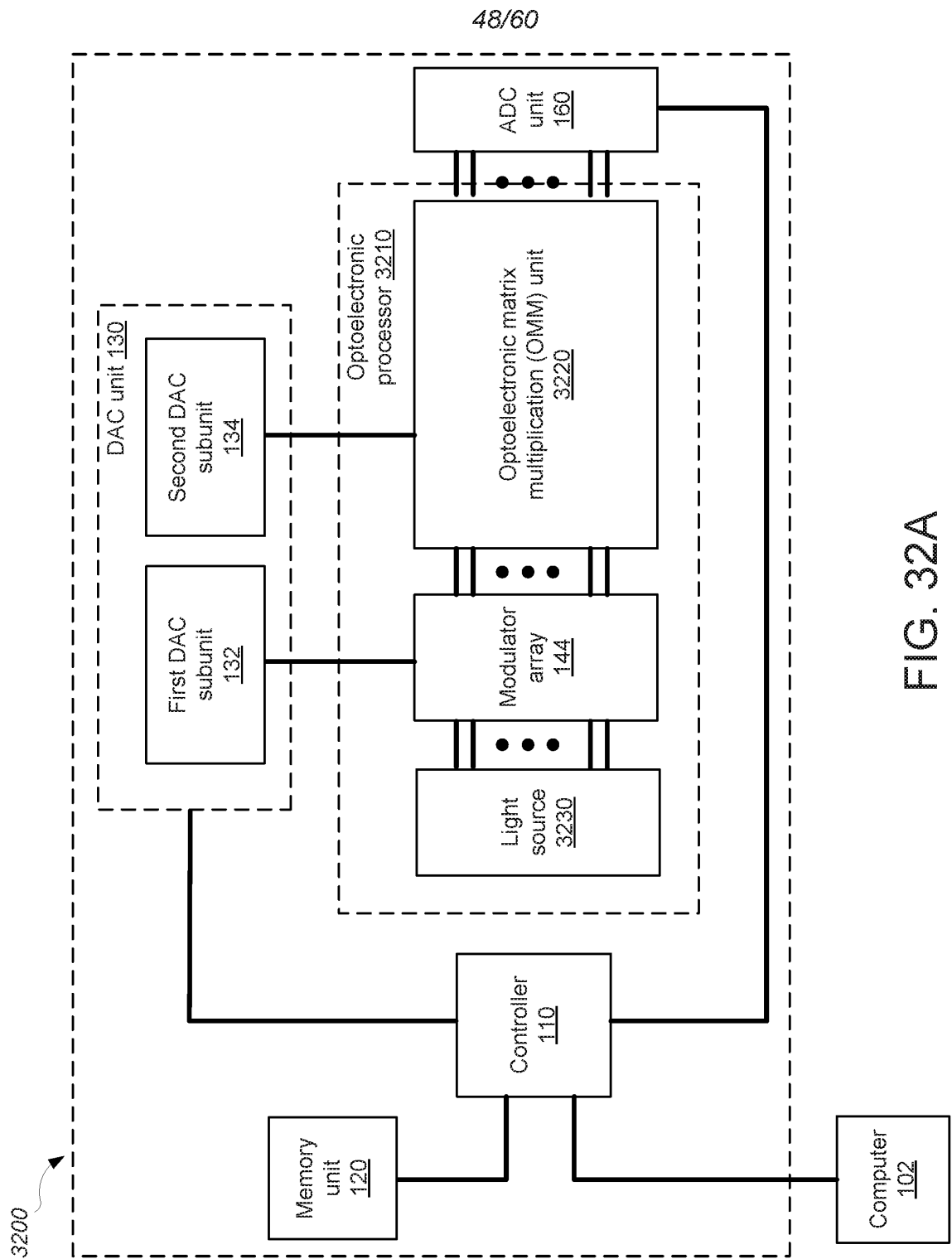


FIG. 31



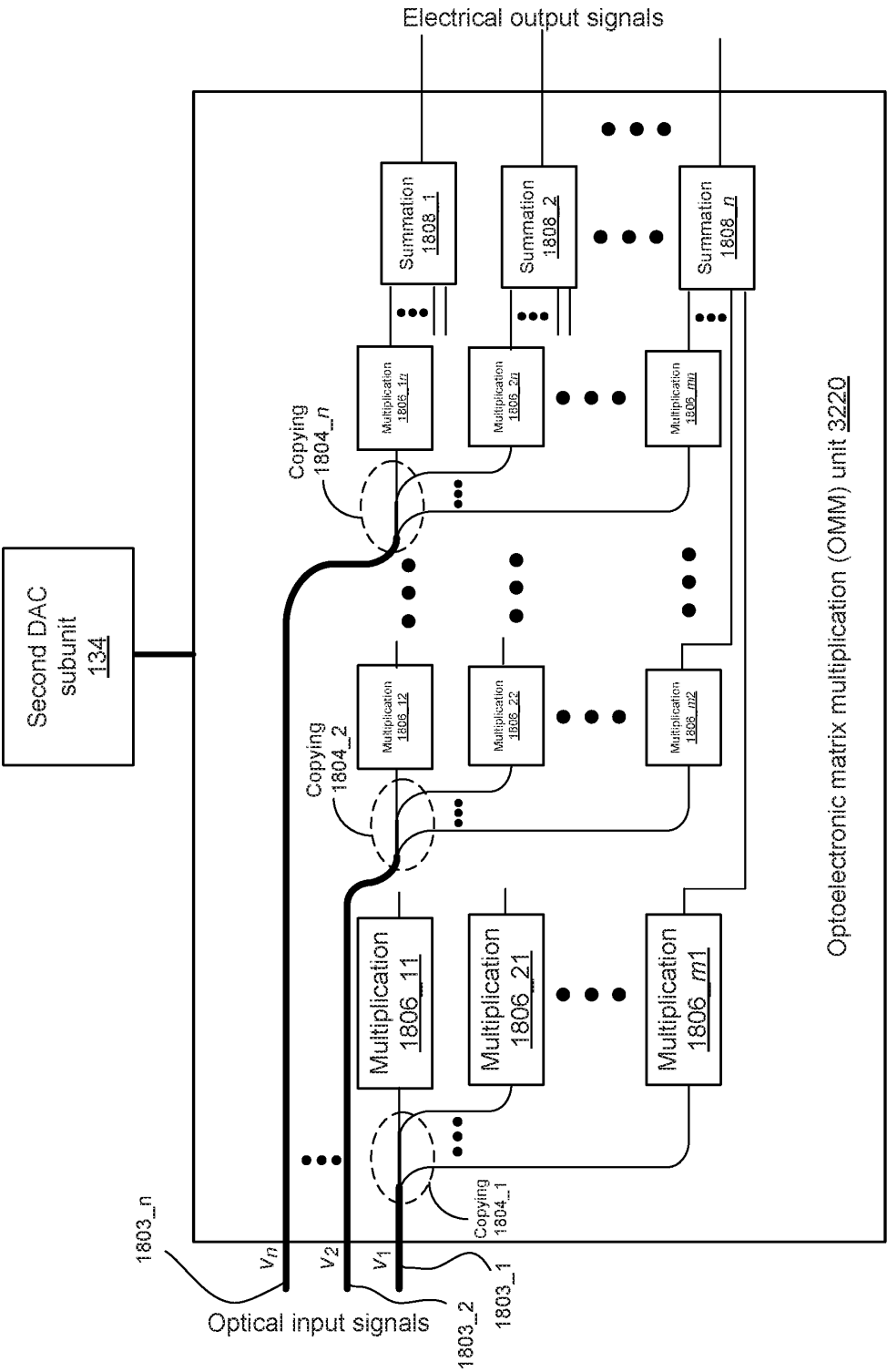


FIG. 32B

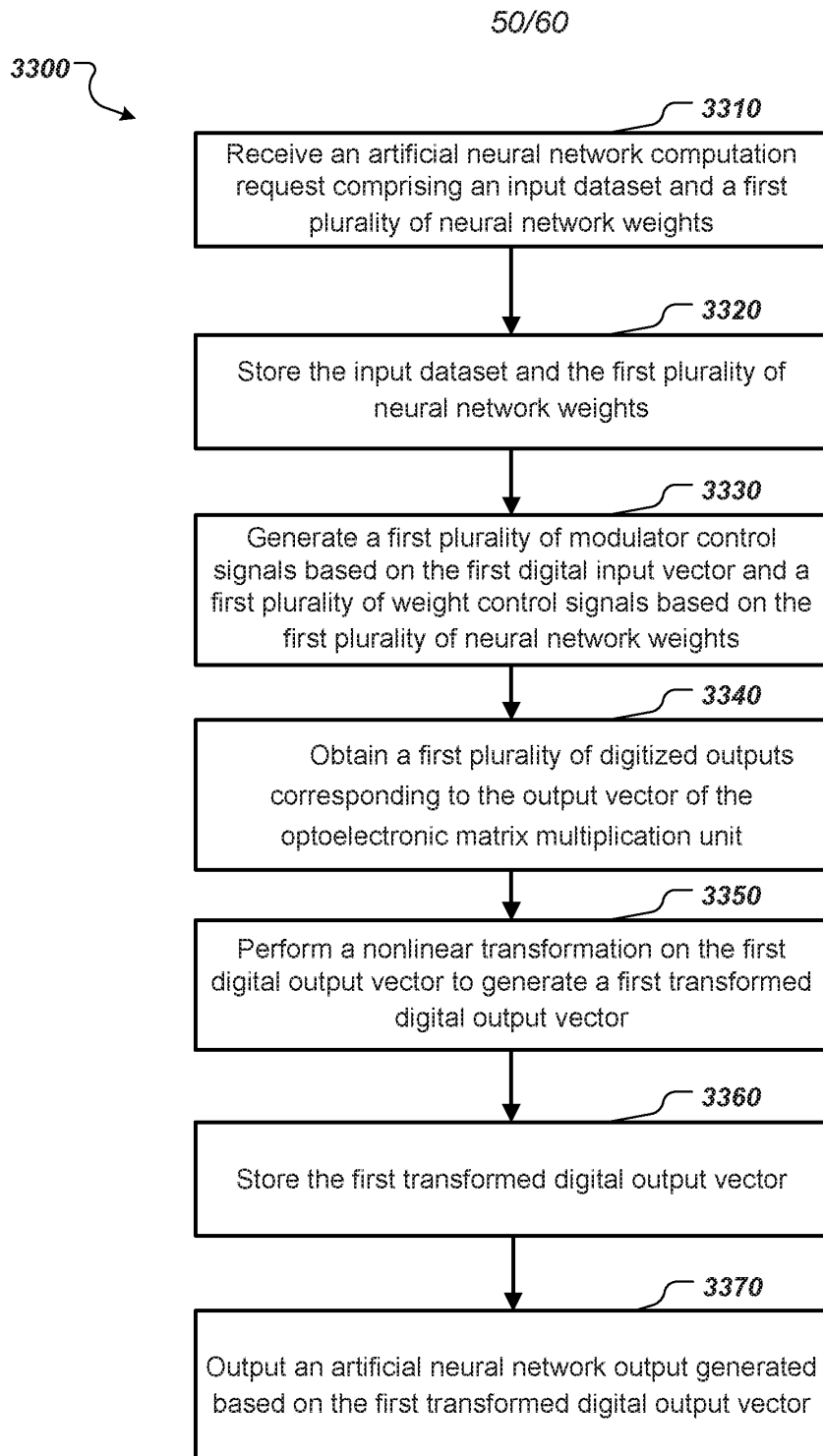


FIG. 33

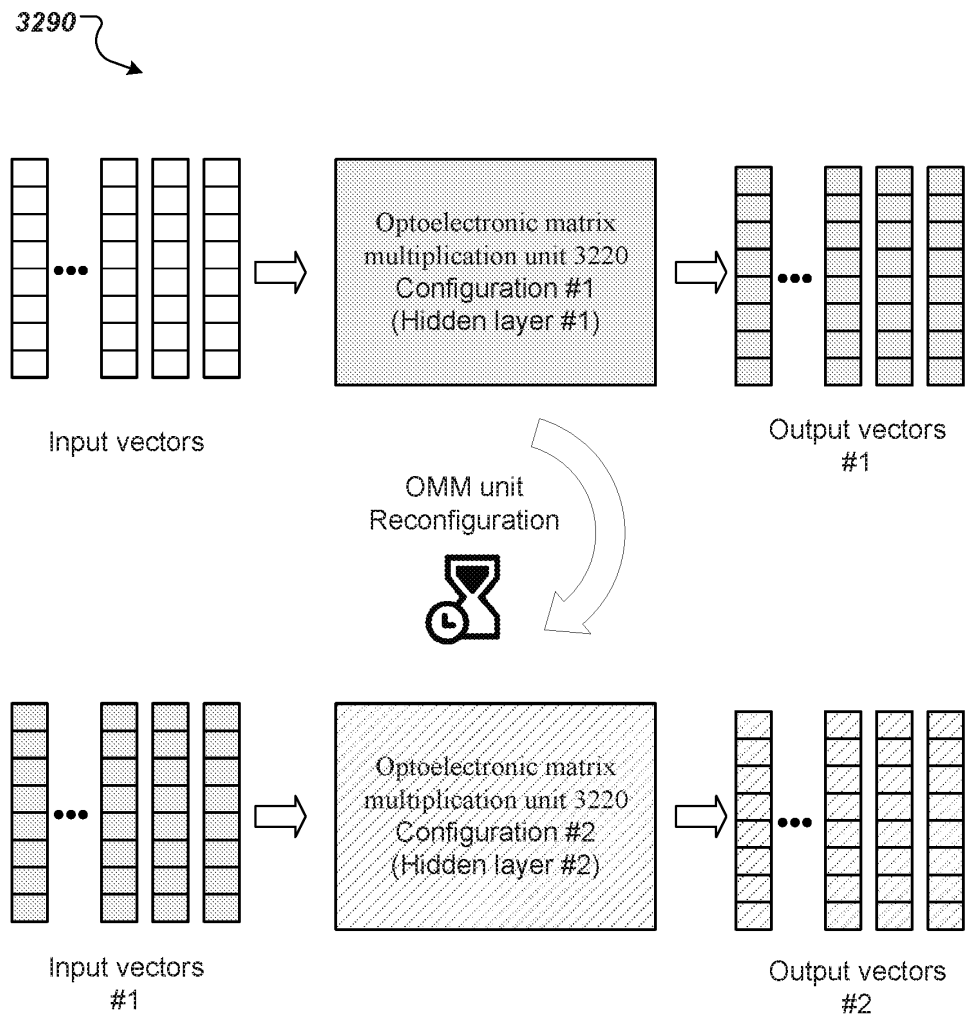
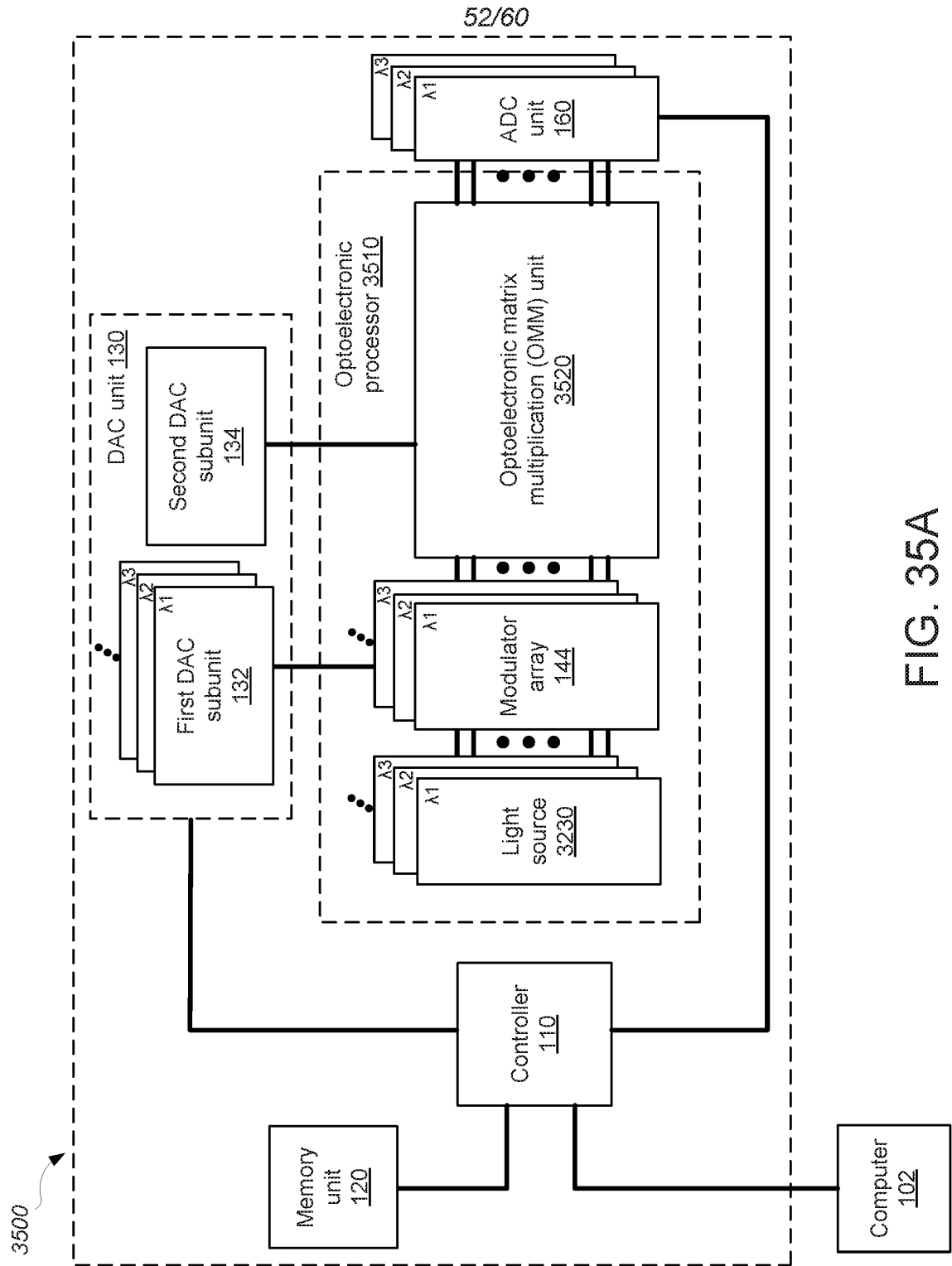


FIG. 34



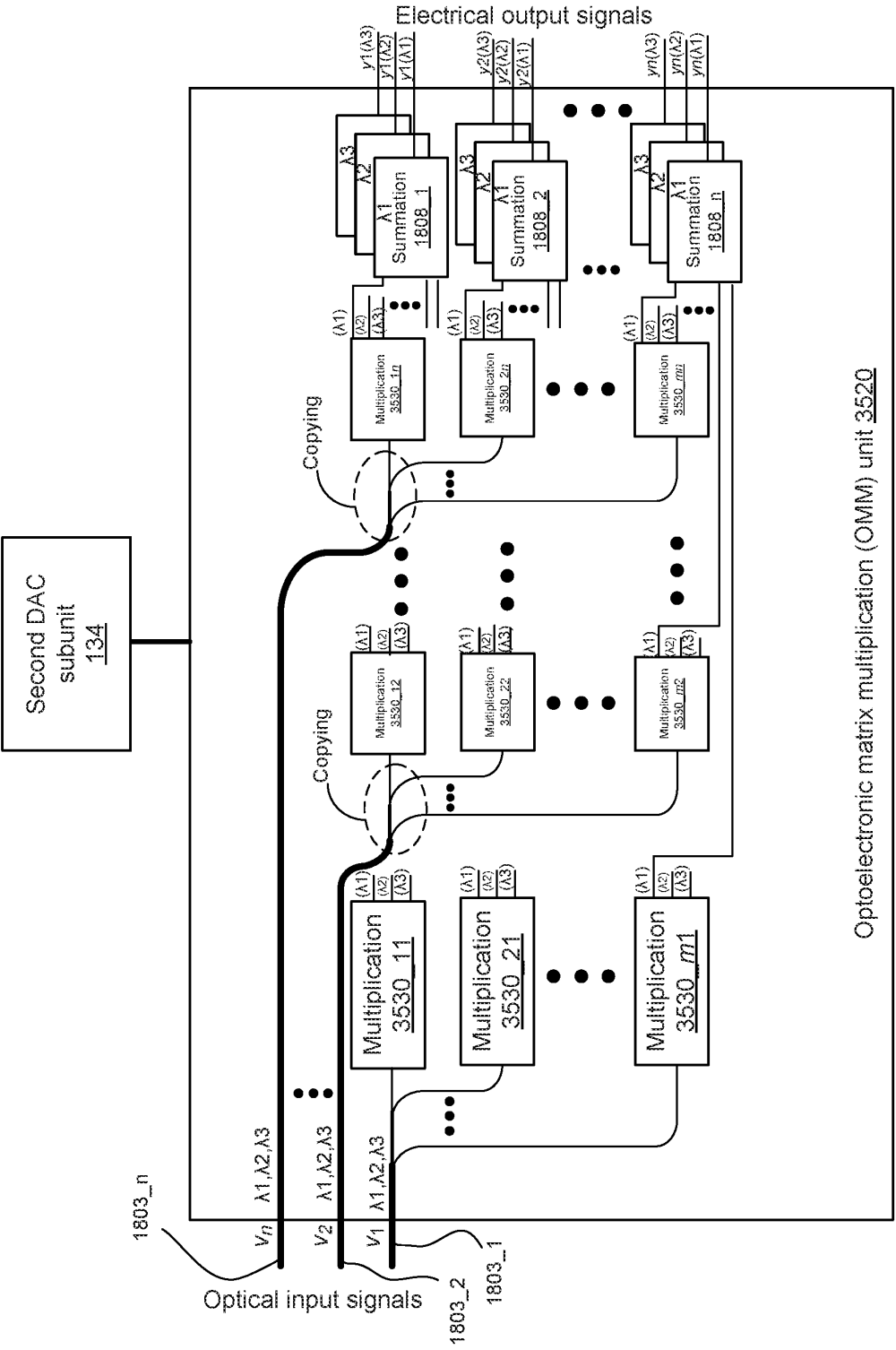


FIG. 35B

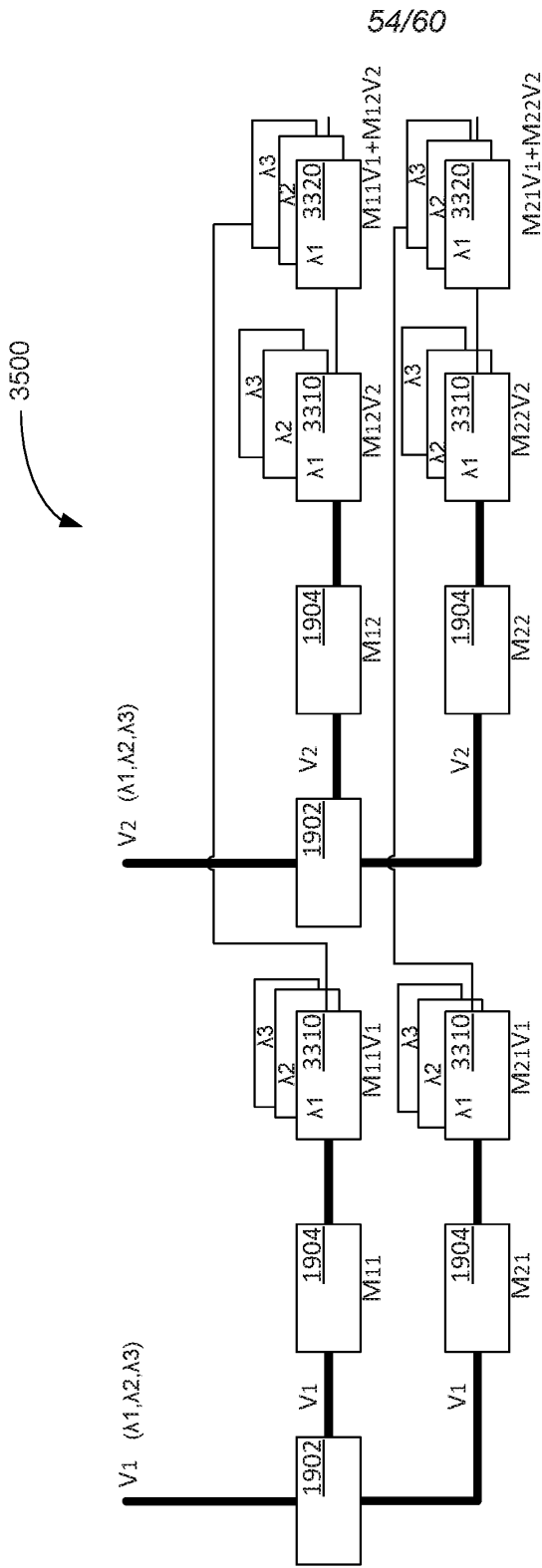
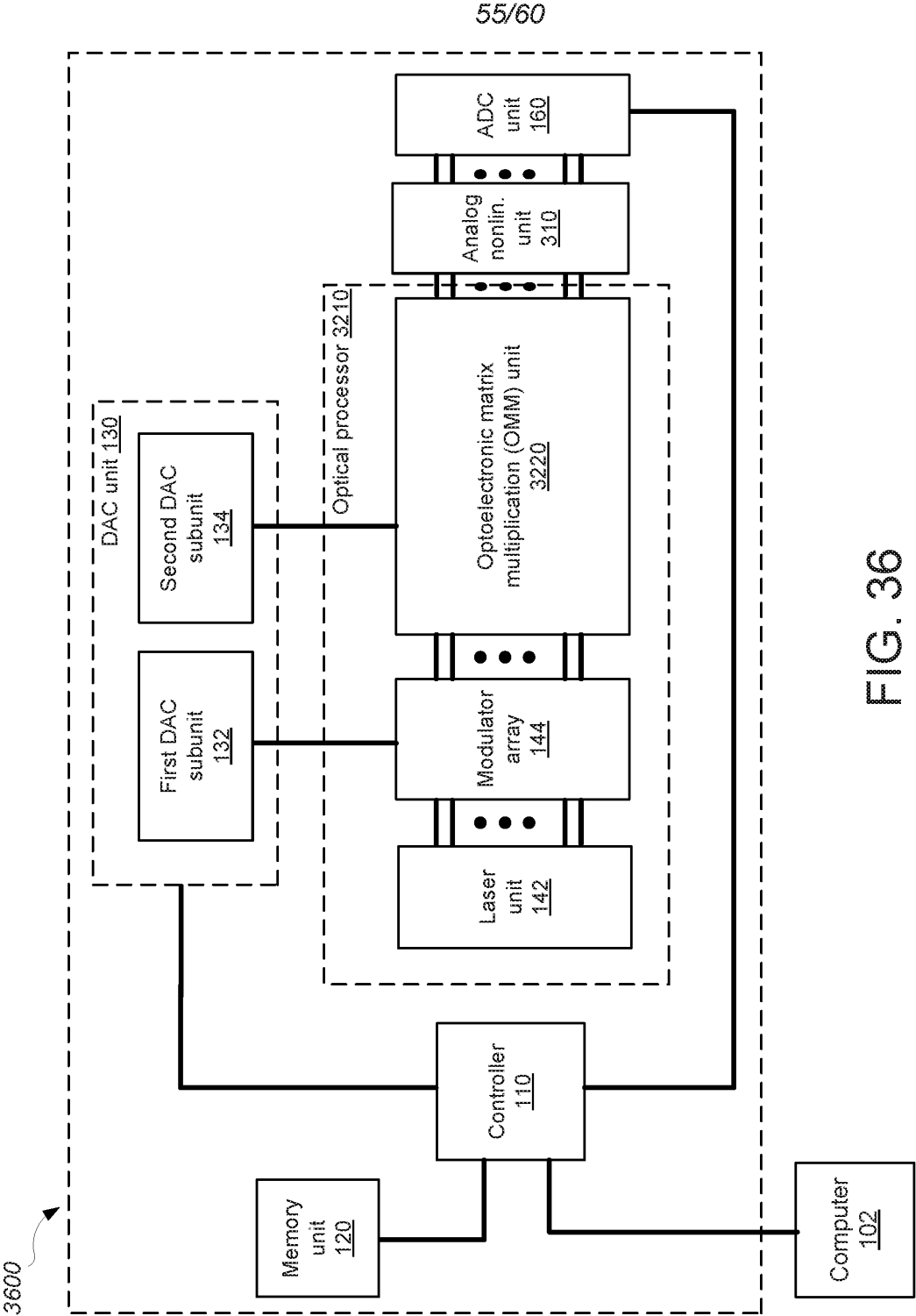


FIG. 35C



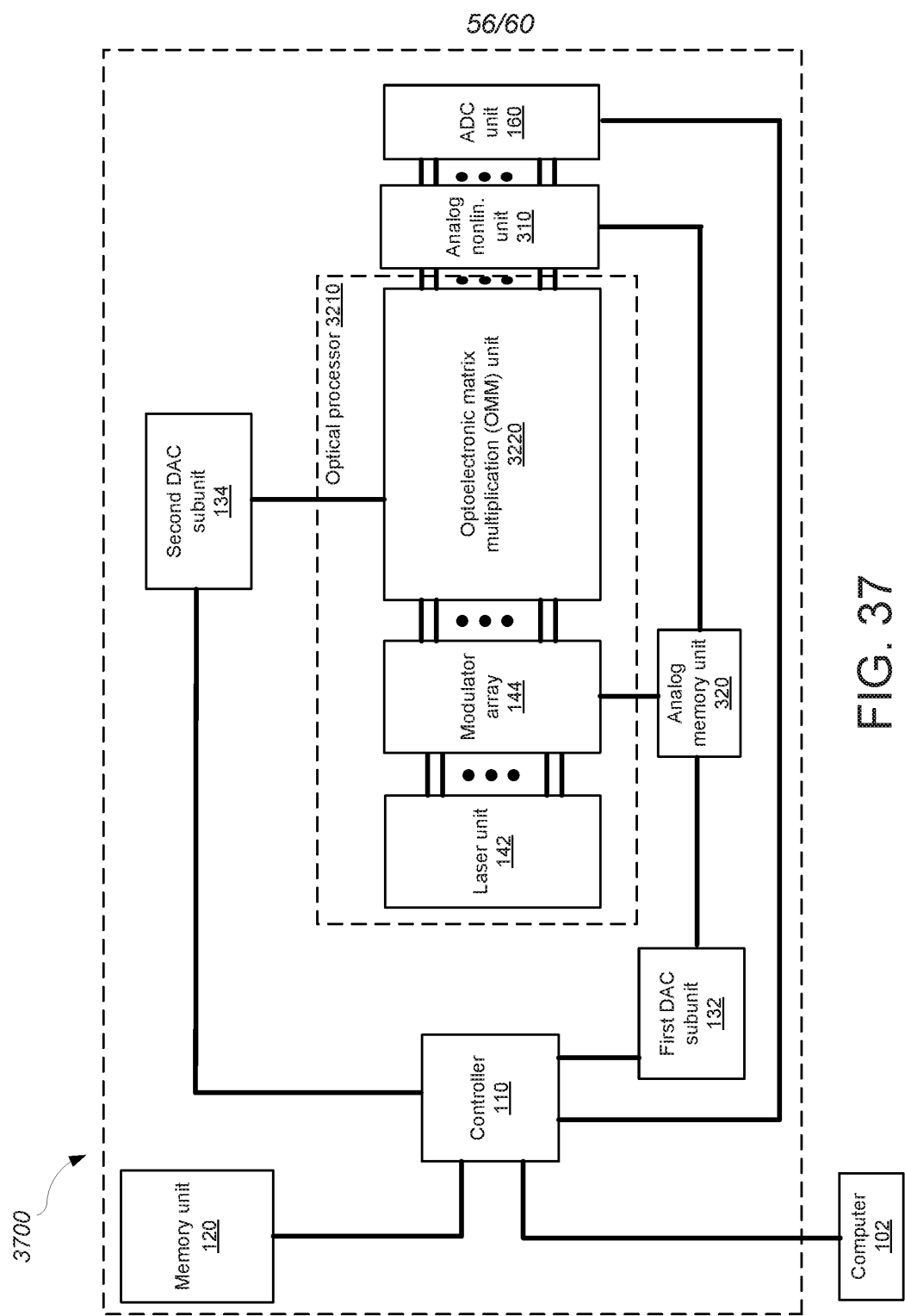
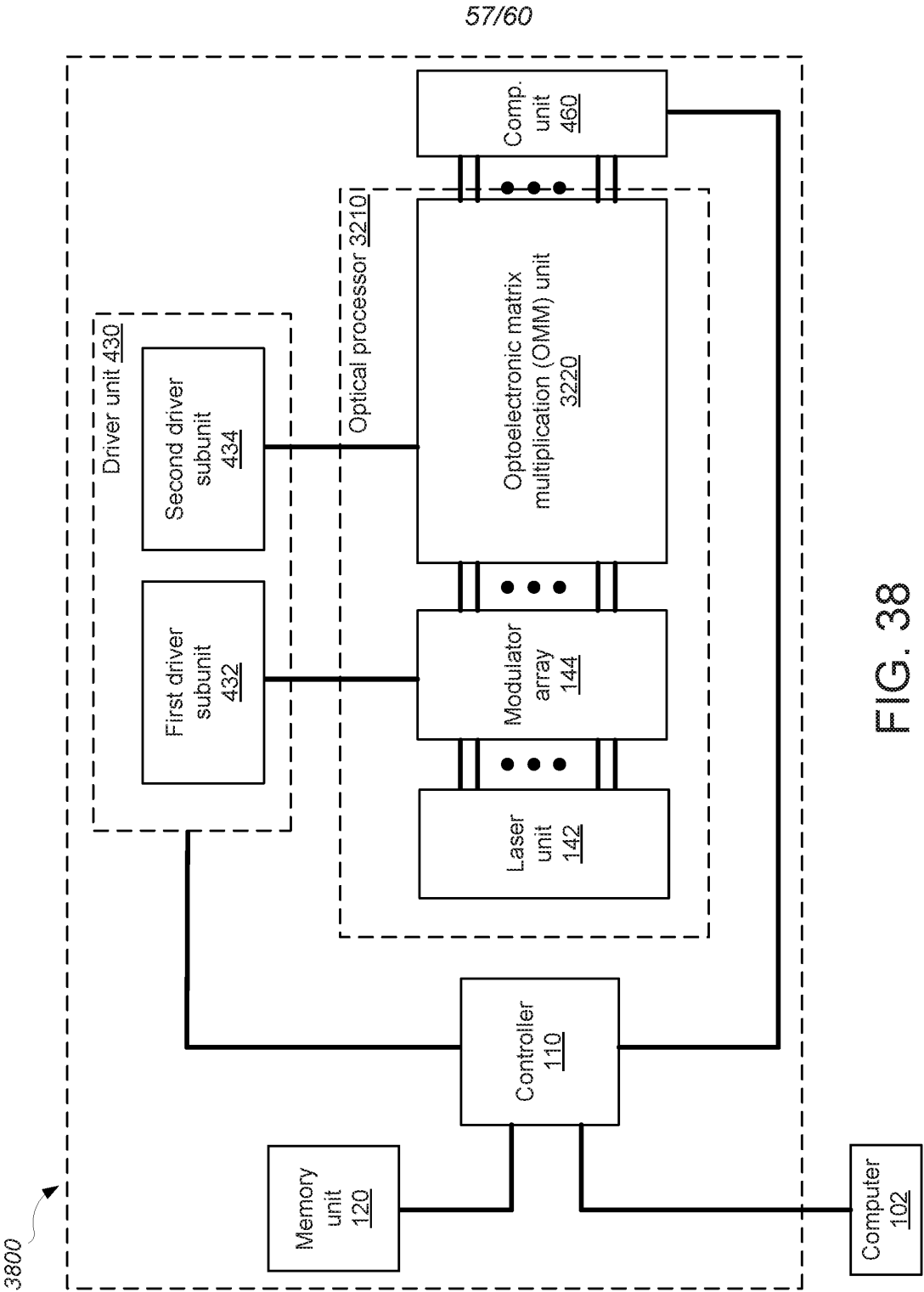


FIG. 37



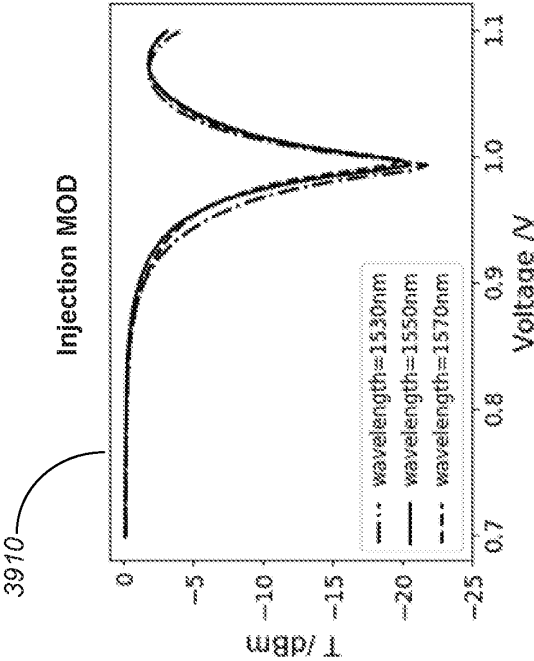


FIG. 39B

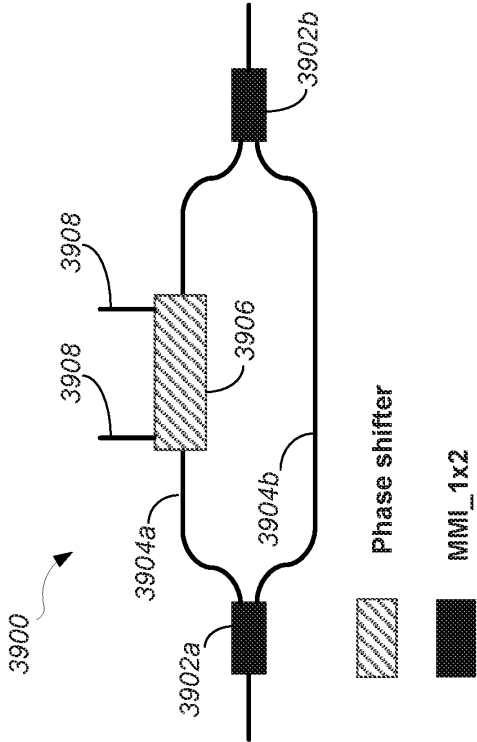


FIG. 39A

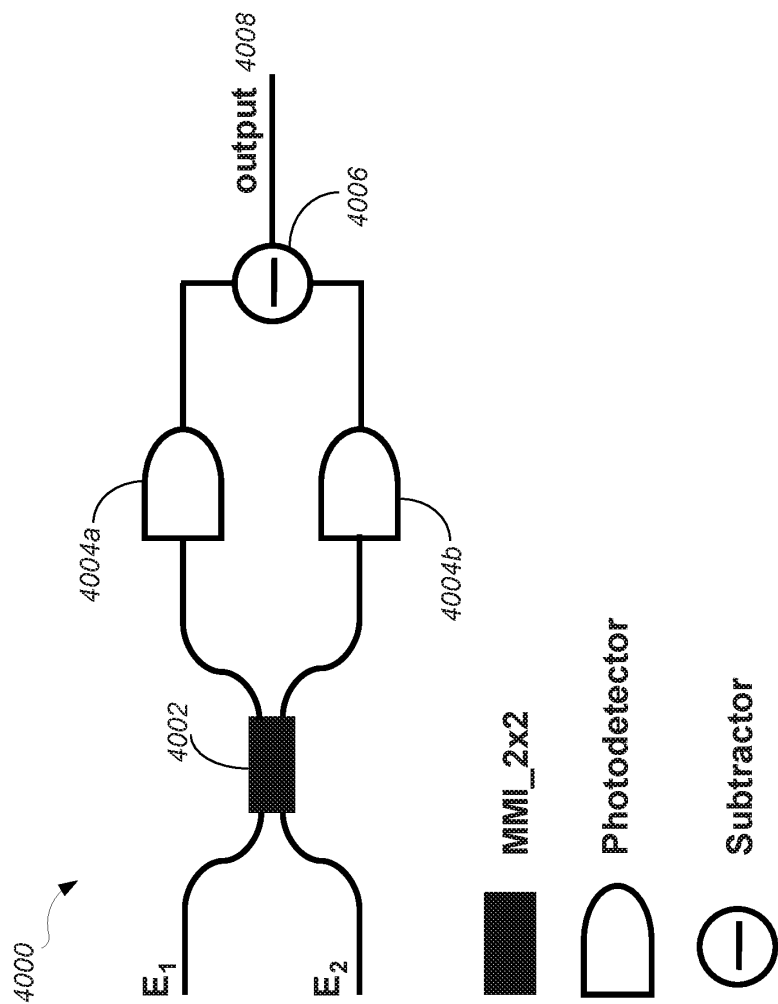


FIG. 40

