

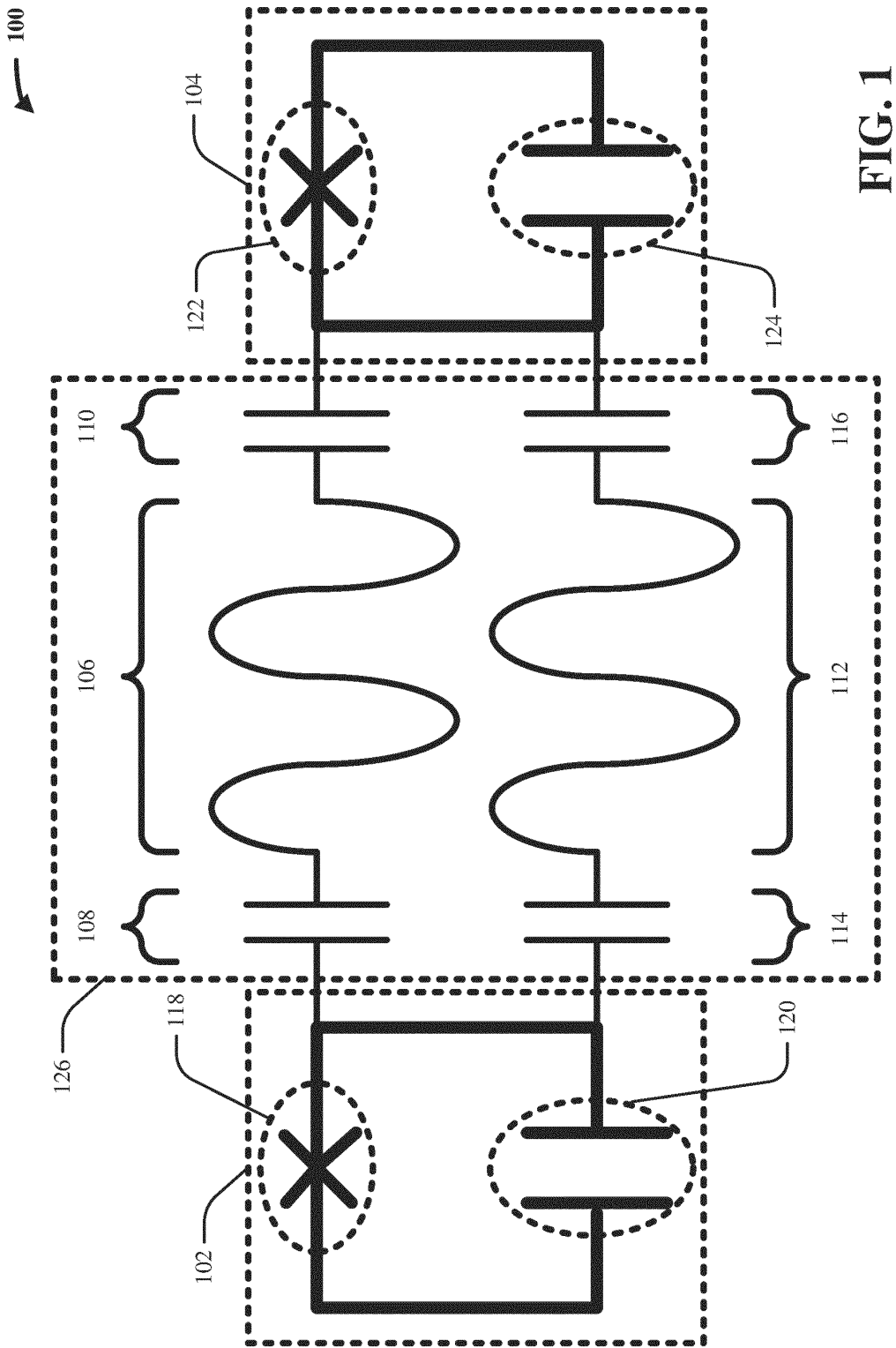


FIG. 1

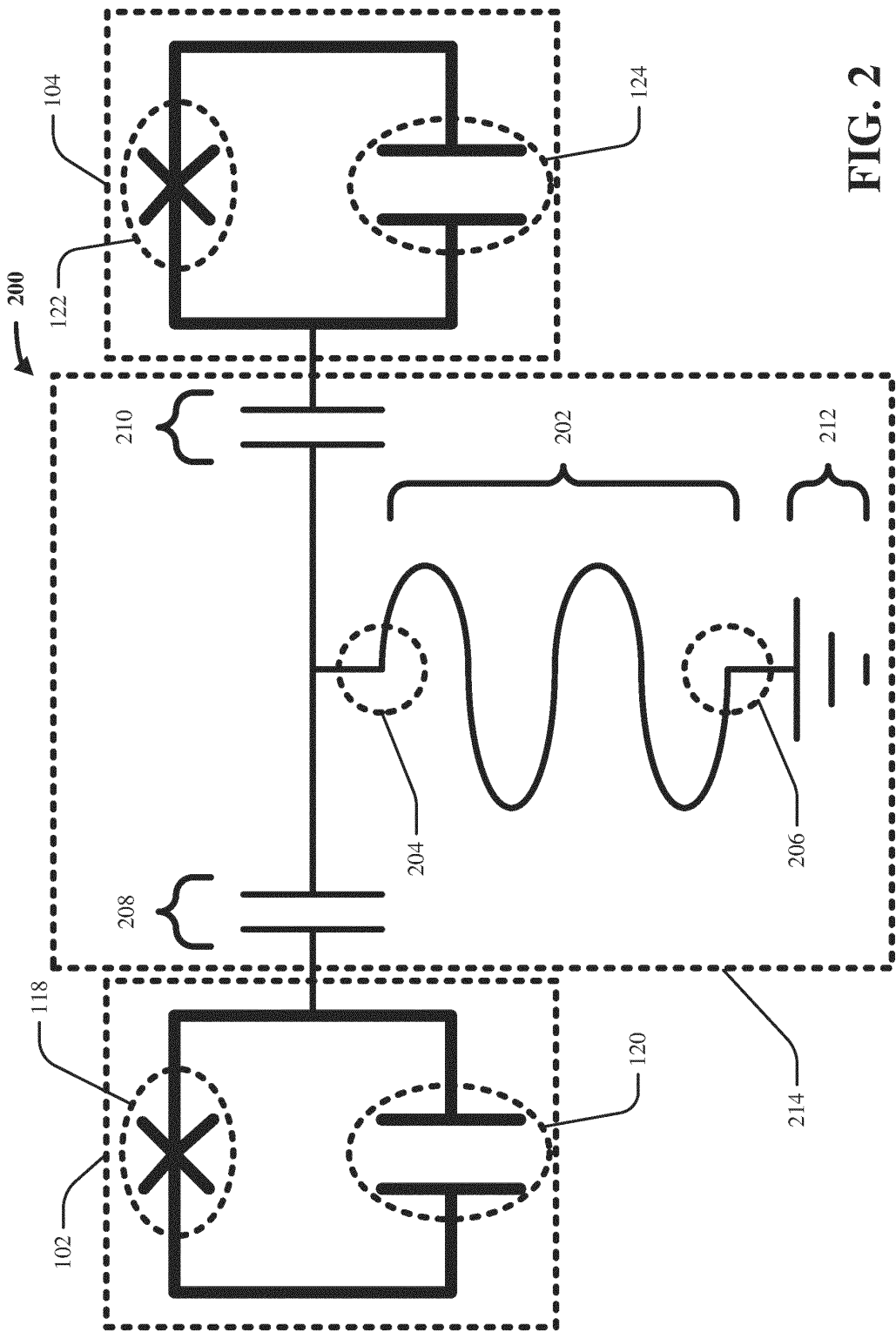


FIG. 2

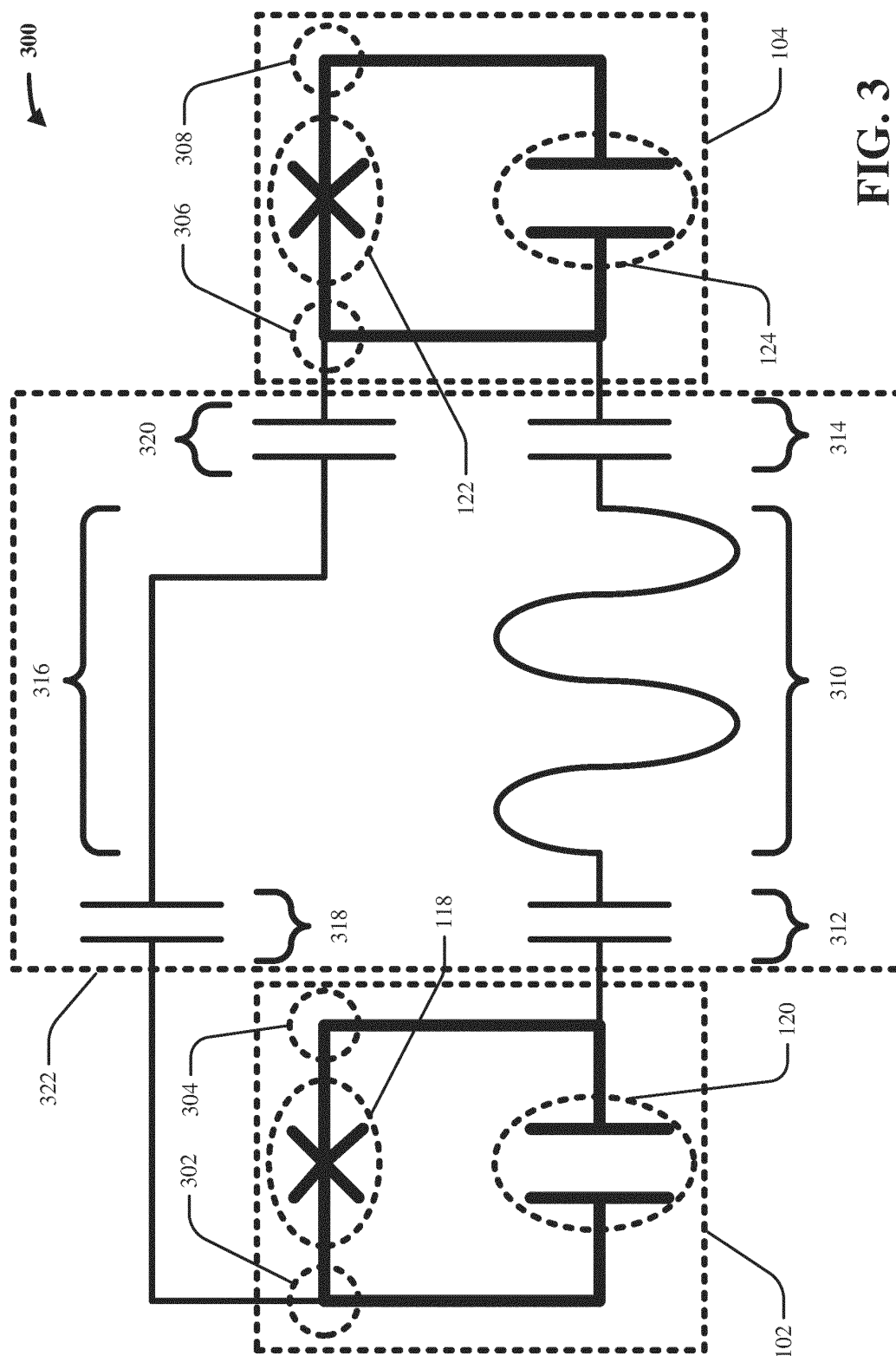


FIG. 3

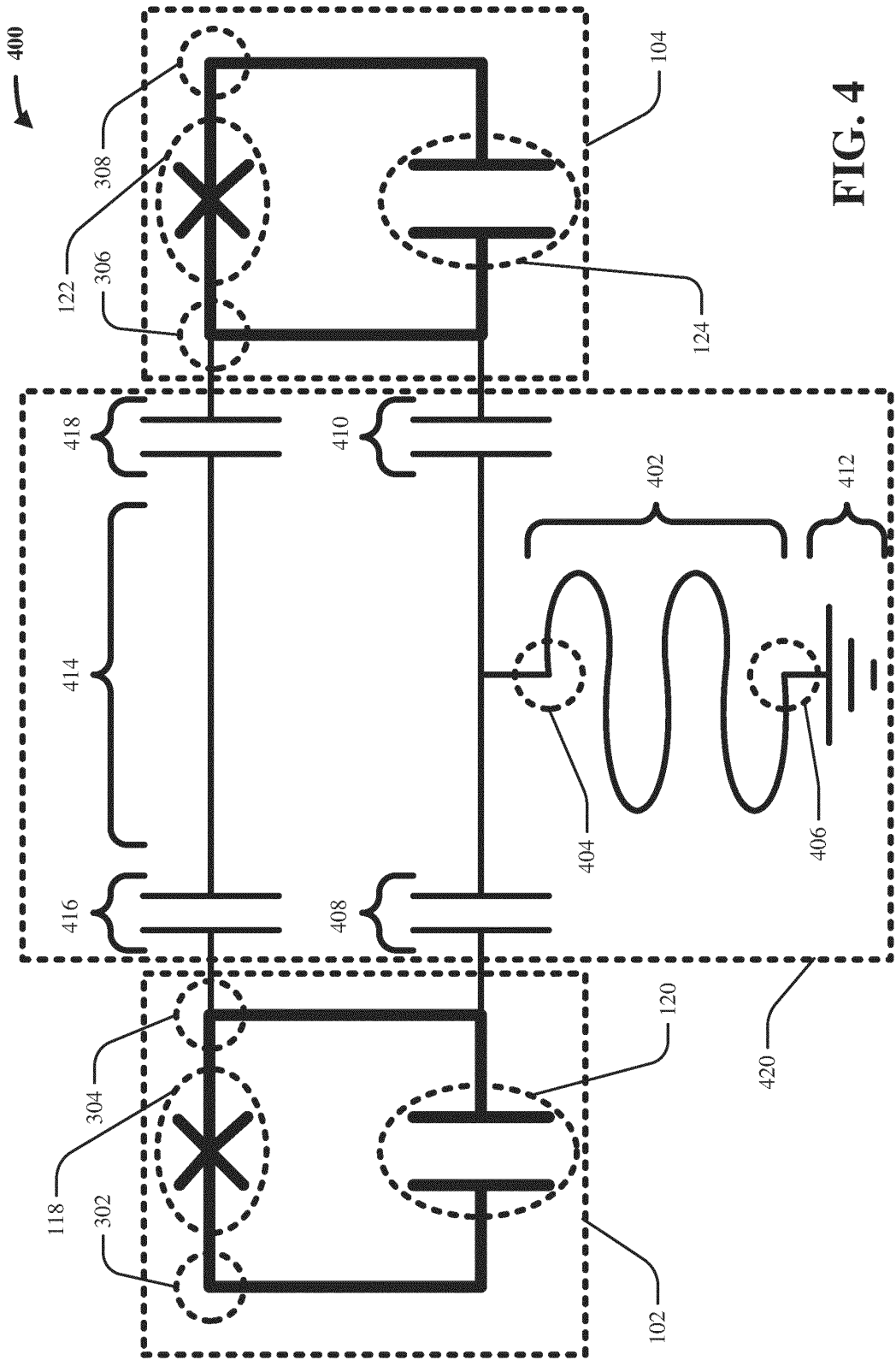


FIG. 4

500

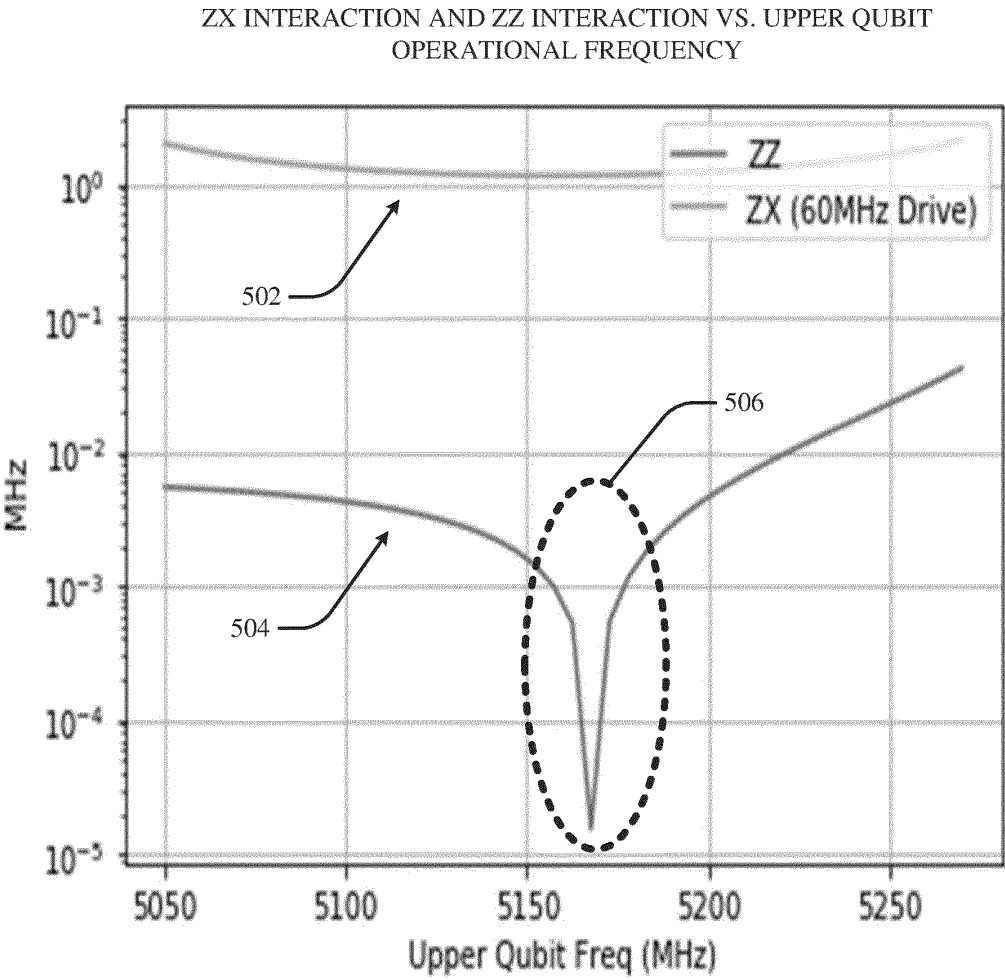


FIG. 5

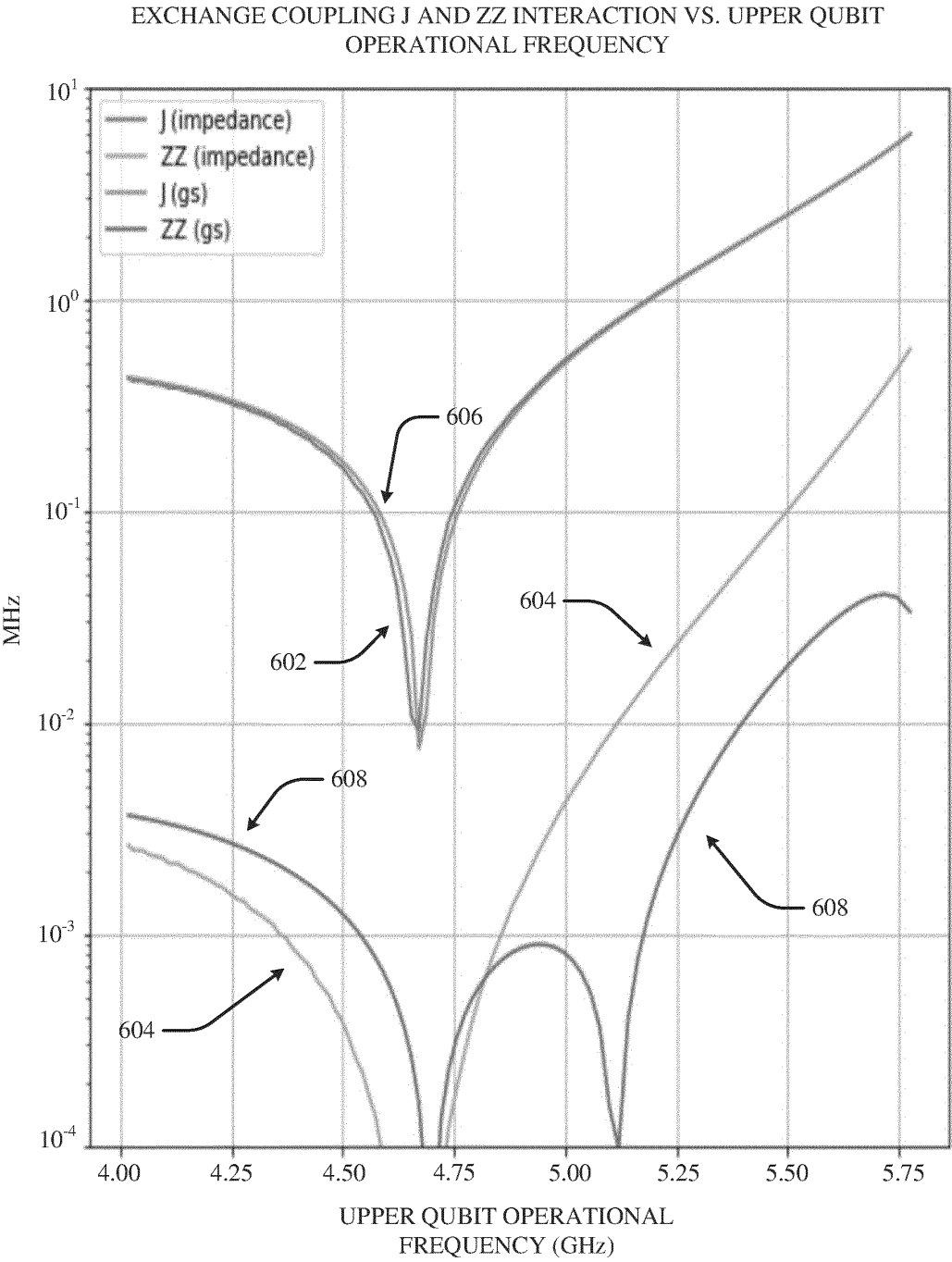


FIG. 6

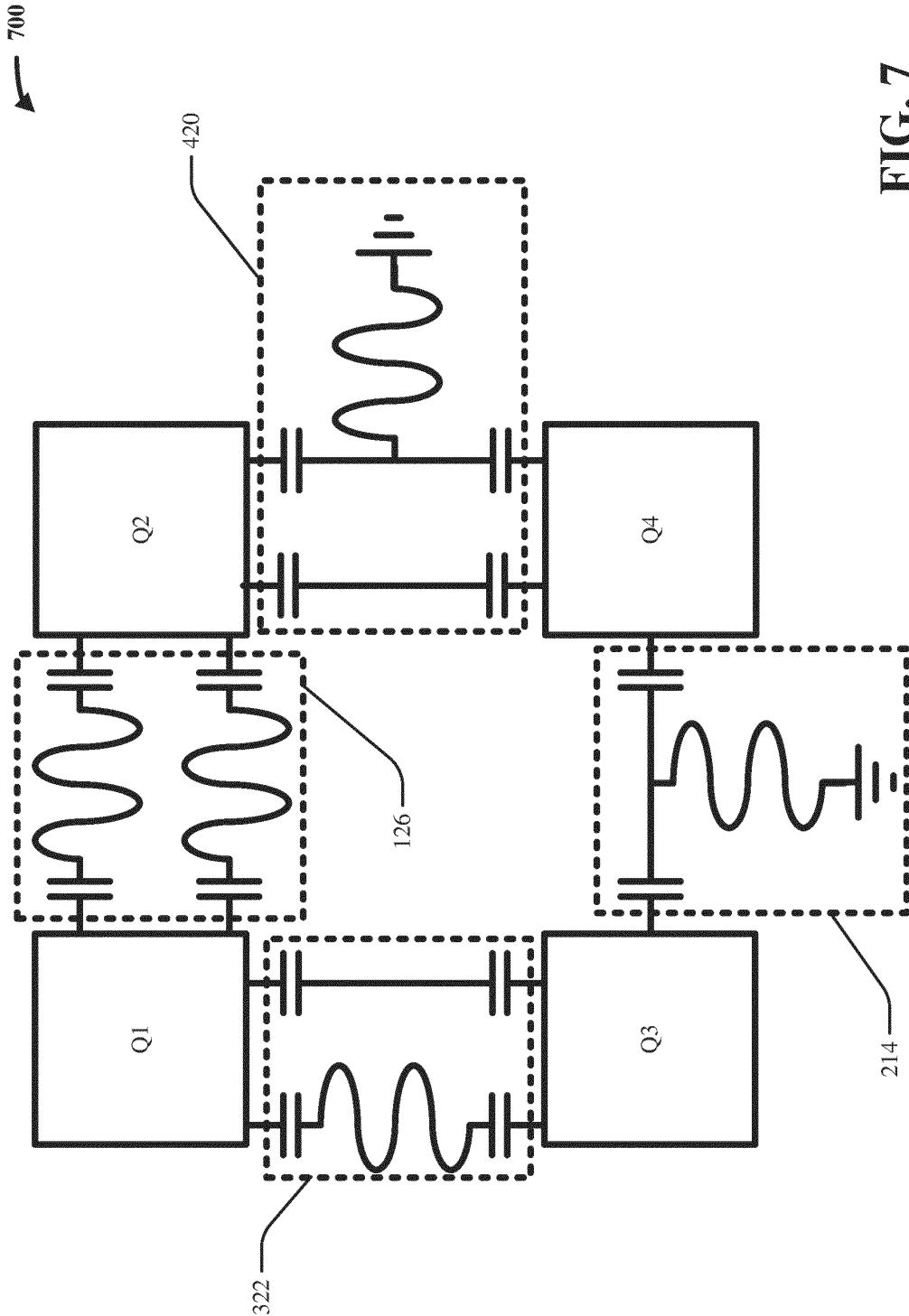


FIG. 7

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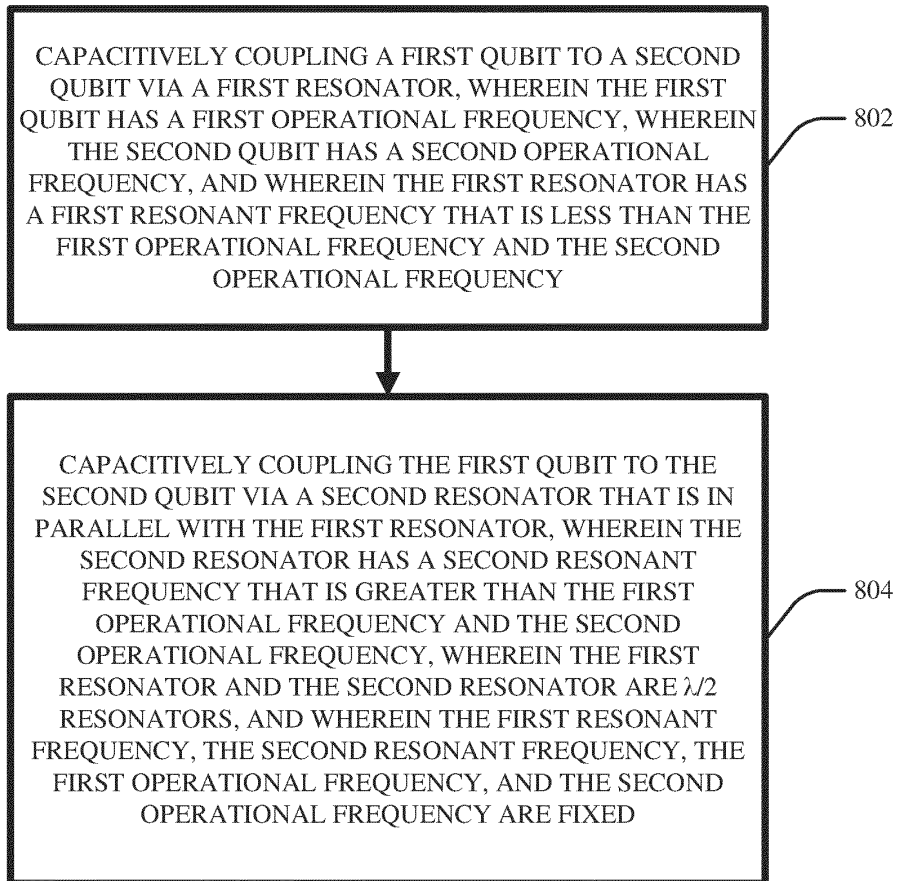
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FIG. 8

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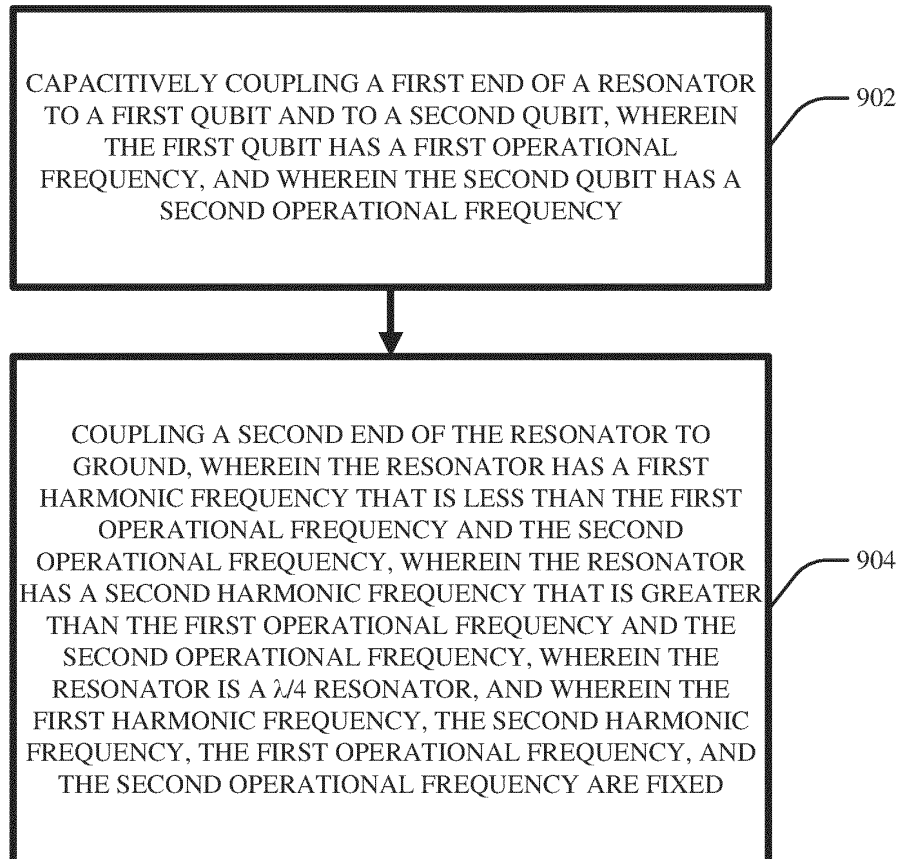
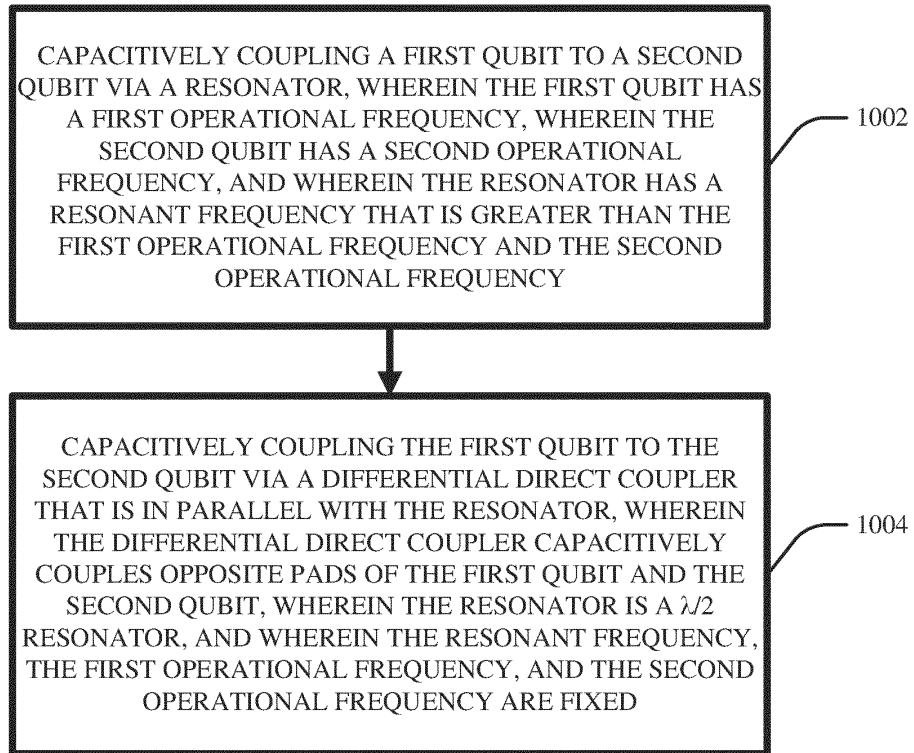
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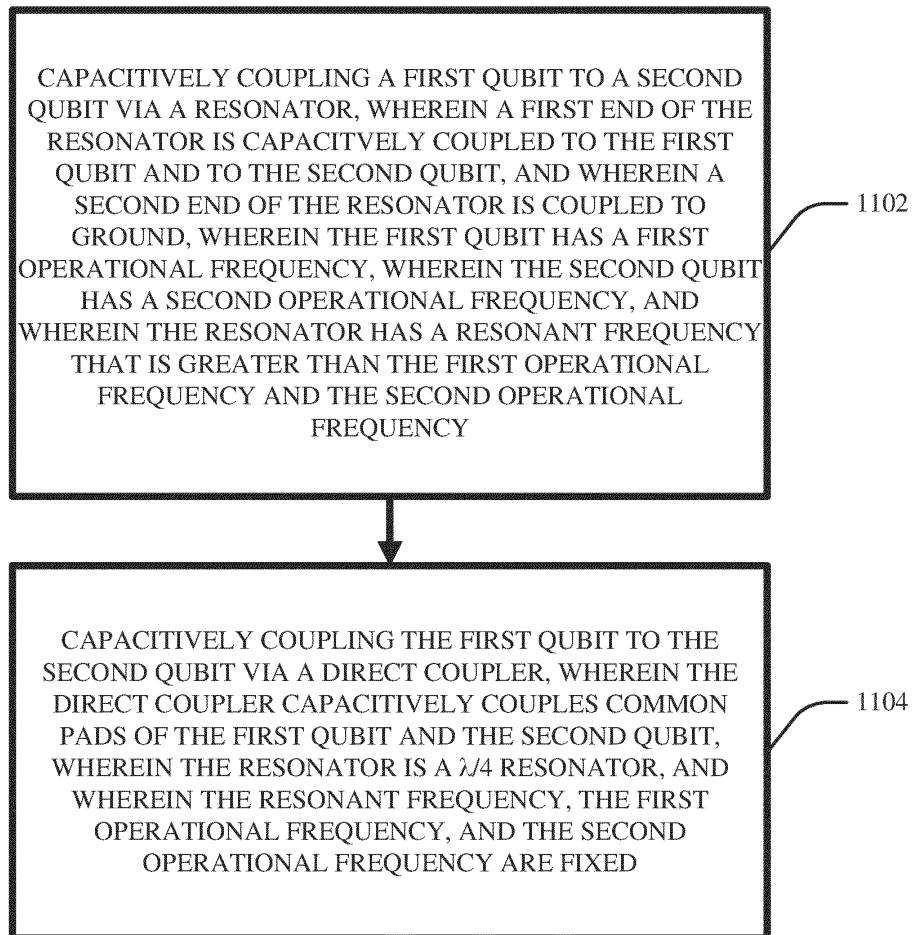
FIG. 9

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 1000**FIG. 10**

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1100

**FIG. 11**

CAPACITIVELY COUPLING A FIRST QUBIT TO A SECOND QUBIT VIA A NON-TUNABLE MULTI-RESONANT ARCHITECTURE; WHEREIN THE MULTI-RESONANT ARCHITECTURE INCLUDES A FIRST POLE GREATER THAN A FIRST OPERATIONAL FREQUENCY OF THE FIRST QUBIT AND A SECOND OPERATIONAL FREQUENCY OF THE SECOND QUBIT; WHEREIN THE MULTI-RESONANT ARCHITECTURE INCLUDES A SECOND POLE LESS THAN THE FIRST OPERATIONAL FREQUENCY AND THE SECOND OPERATIONAL FREQUENCY, OR WHEREIN THE MULTI-RESONANT ARCHITECTURE INCLUDES A DIRECT COUPLING TERM; WHEREIN THE MULTI-RESONANT ARCHITECTURE EXHIBITS A ZERO COUPLING STRENGTH AND A ZERO ZZ INTERACTION IN A FIRST SET OF QUBIT FREQUENCIES; AND WHEREIN THE MULTI-RESONANT ARCHITECTURE EXHIBITS A NON-ZERO COUPLING STRENGTH AND A ZERO ZZ INTERACTION IN A SECOND SET OF QUBIT FREQUENCIES

 1202**FIG. 12**

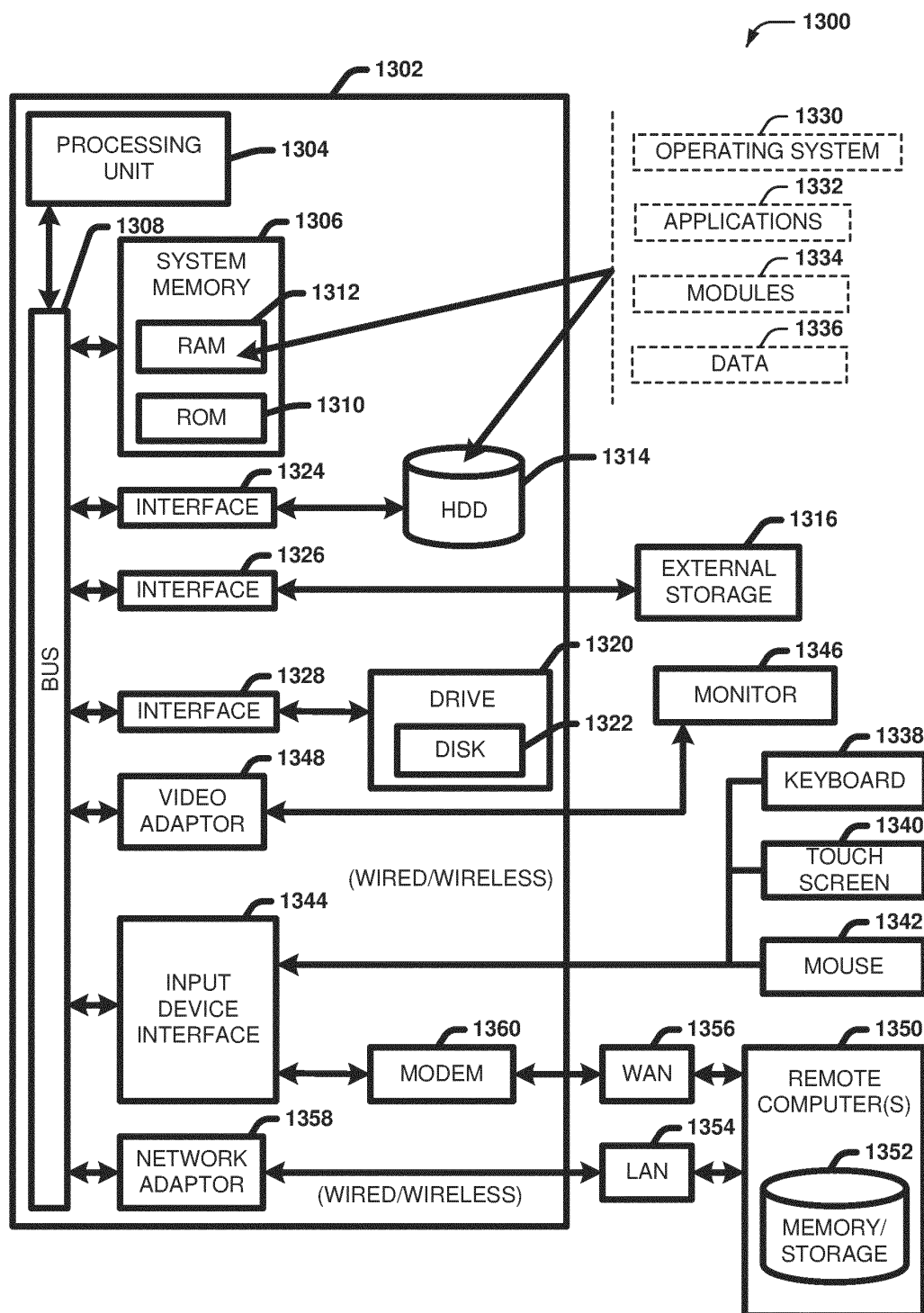


FIG. 13