

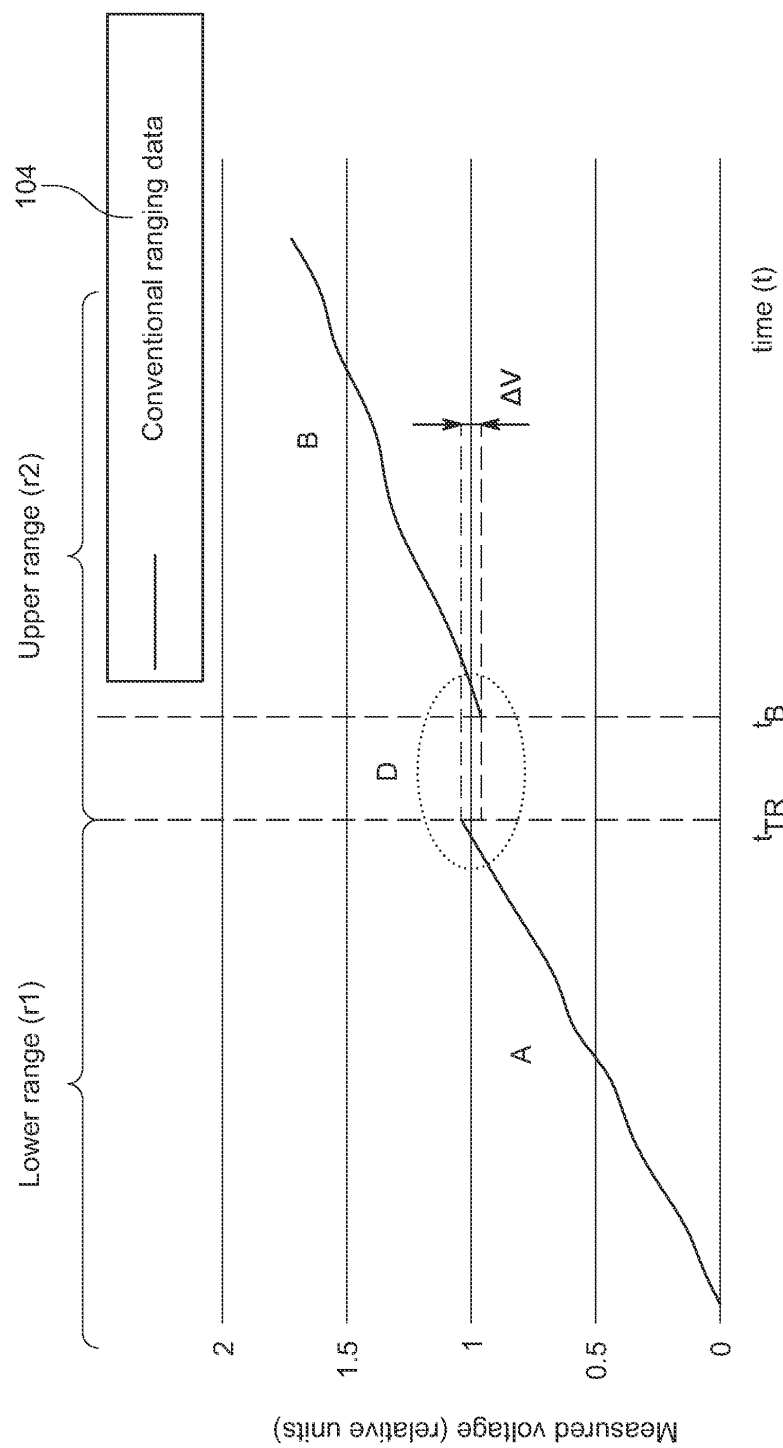


FIG. 1  
(PRIOR ART)

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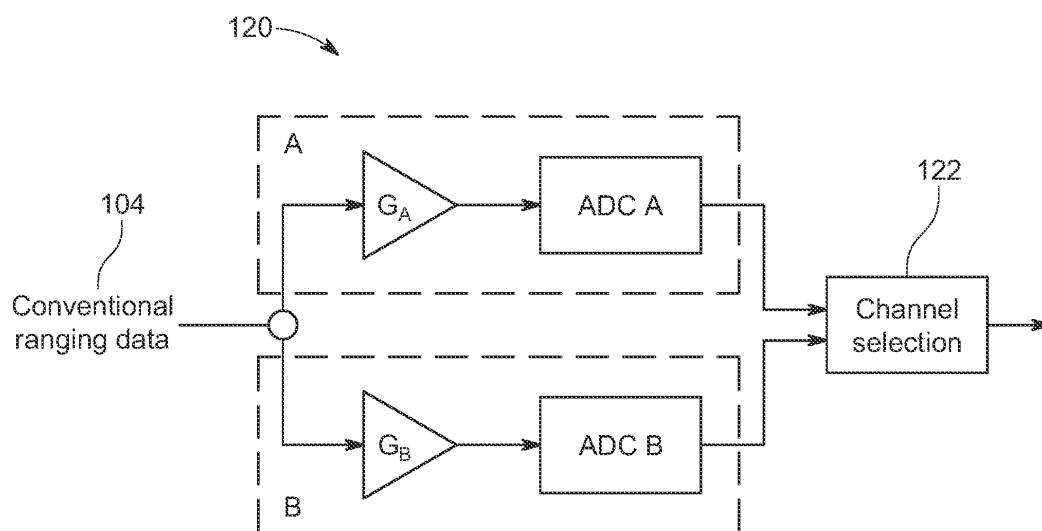


FIG. 2  
(PRIOR ART)

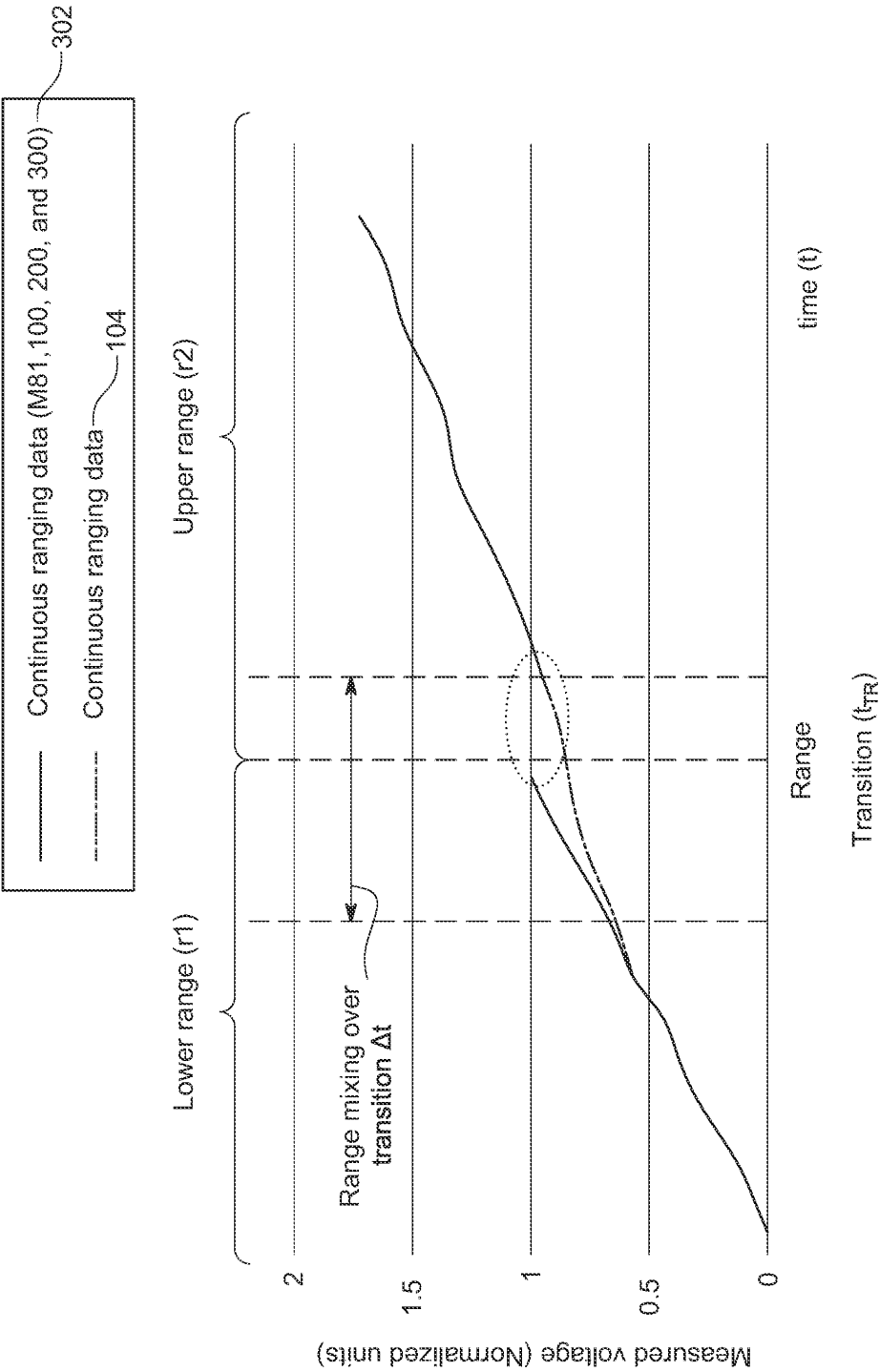


FIG. 3

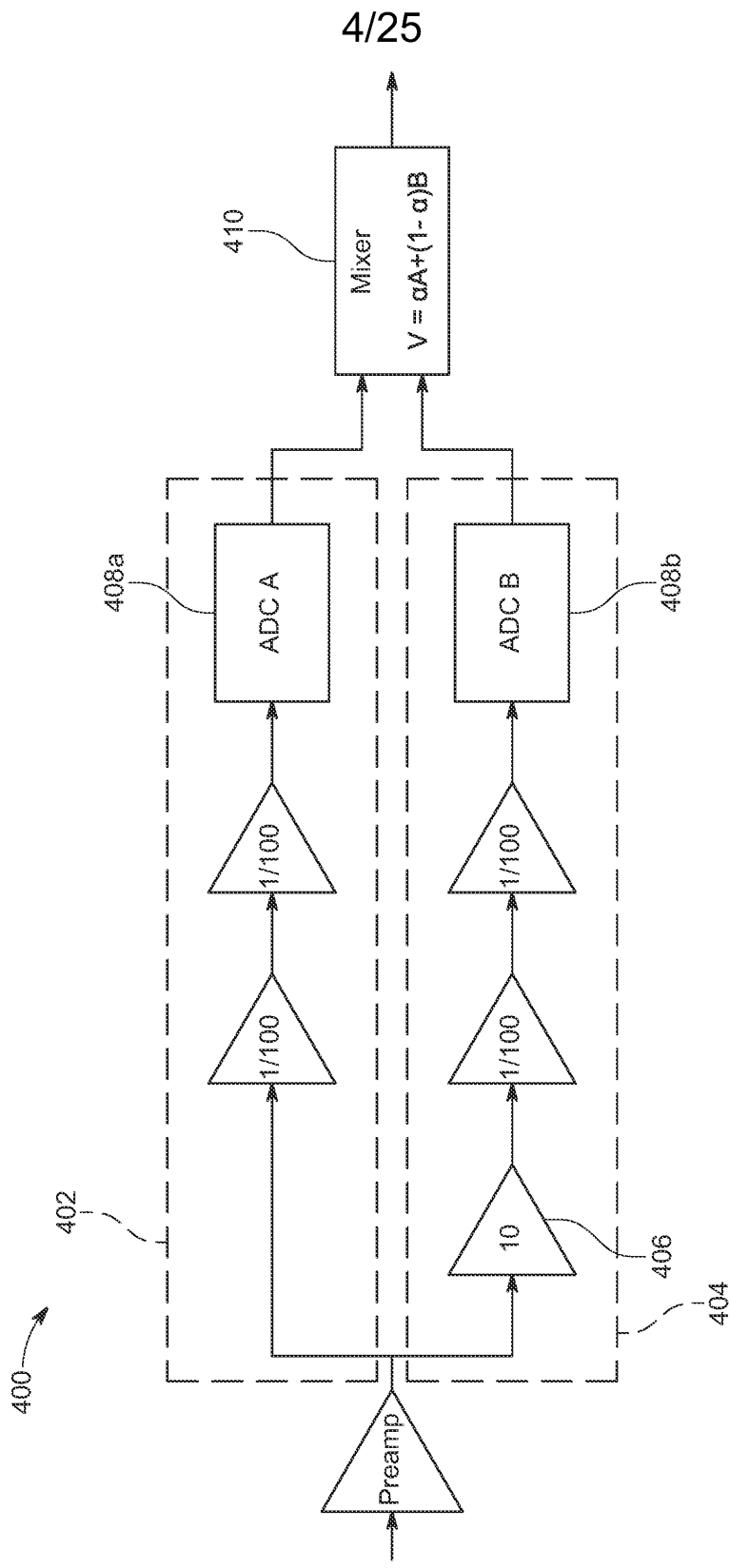


FIG. 4

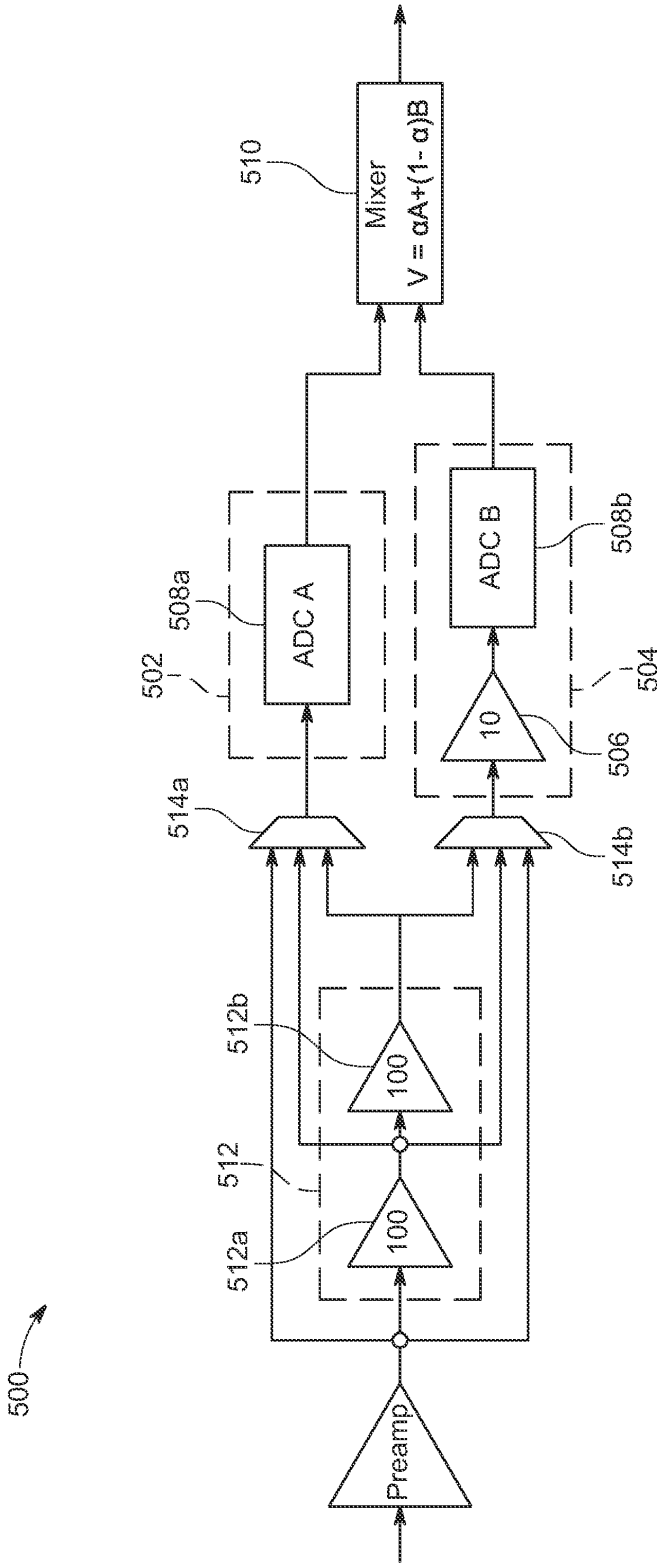


FIG. 5

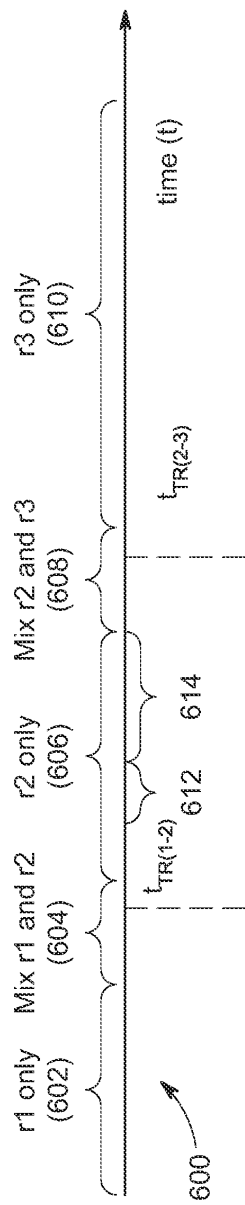


FIG. 6A

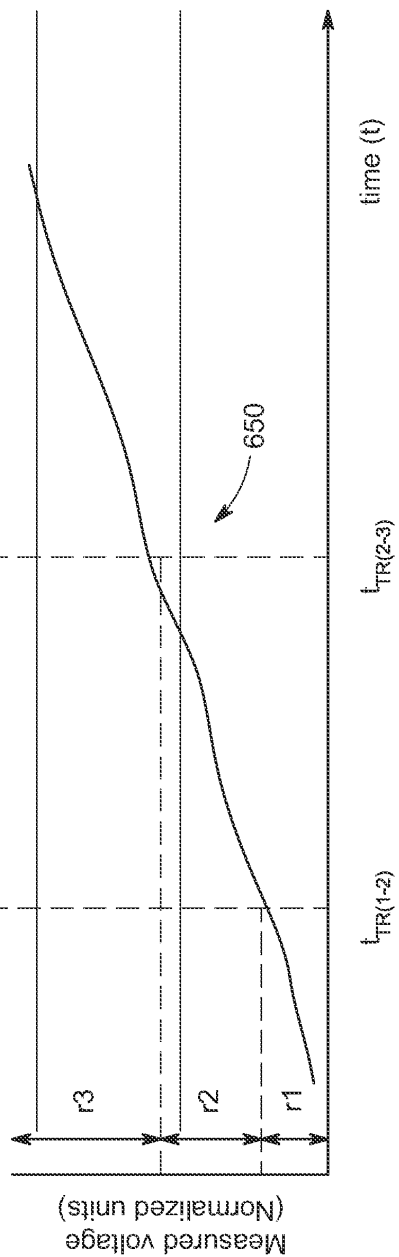


FIG. 6B

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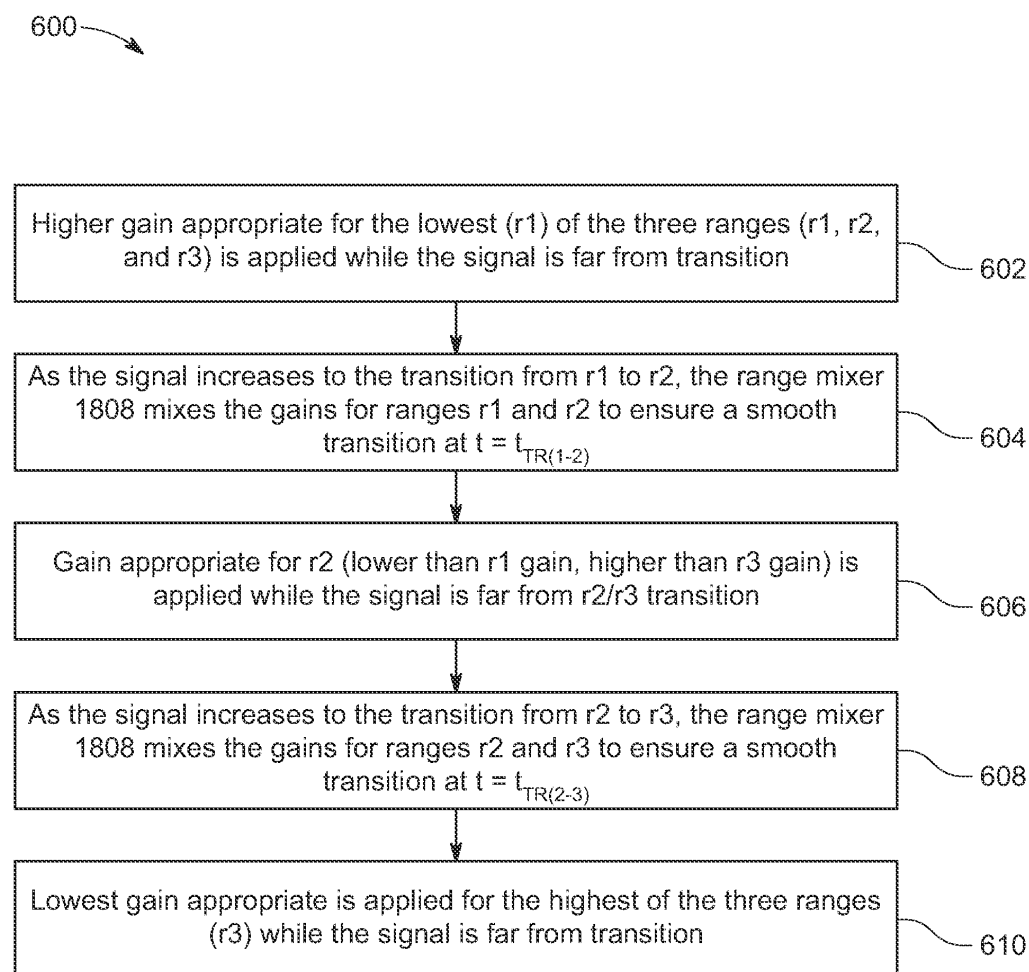


FIG. 6C

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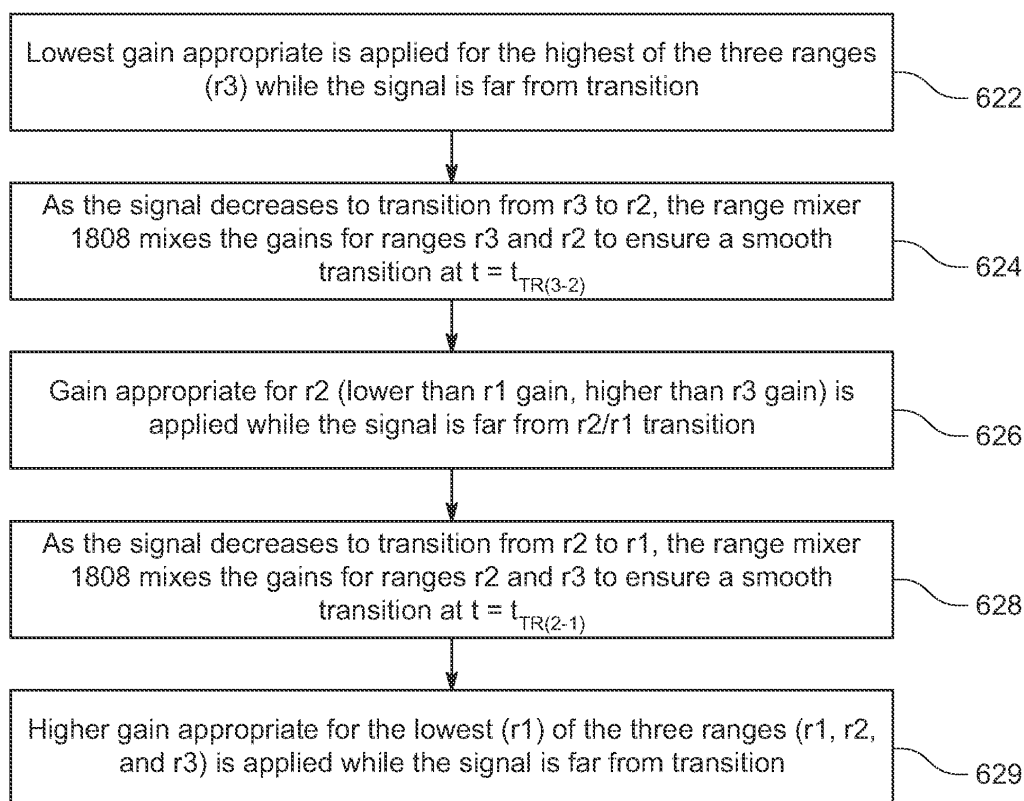


FIG. 6D

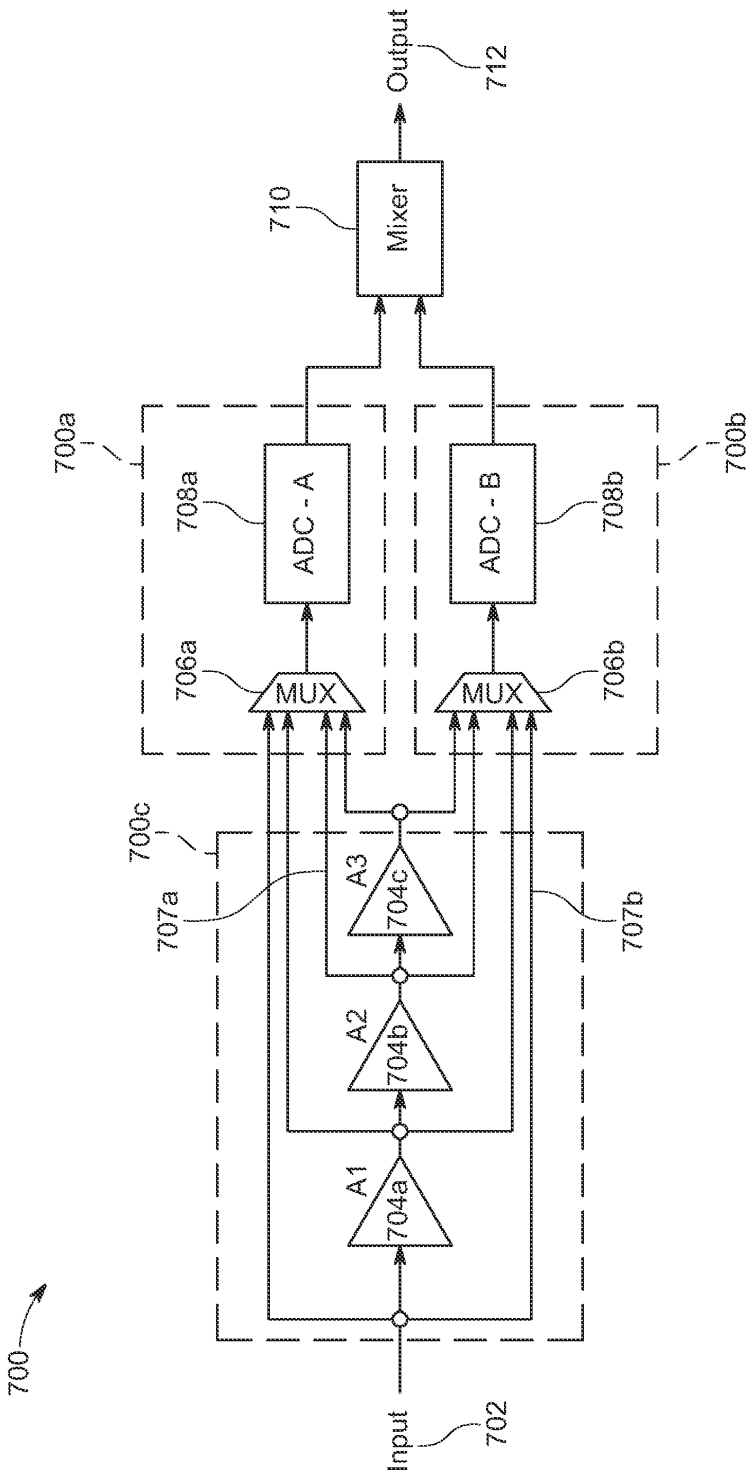


FIG. 7A

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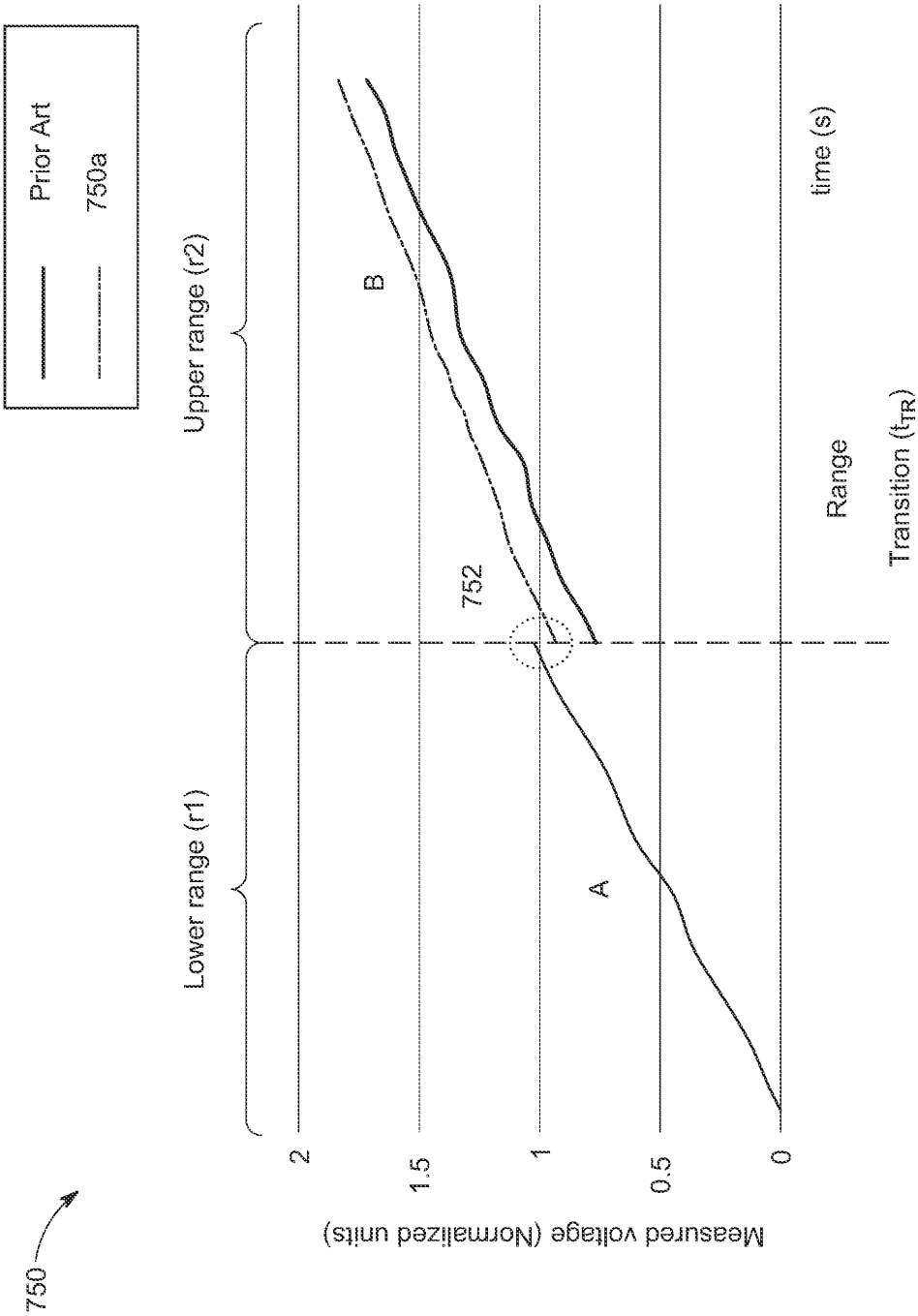


FIG. 7B

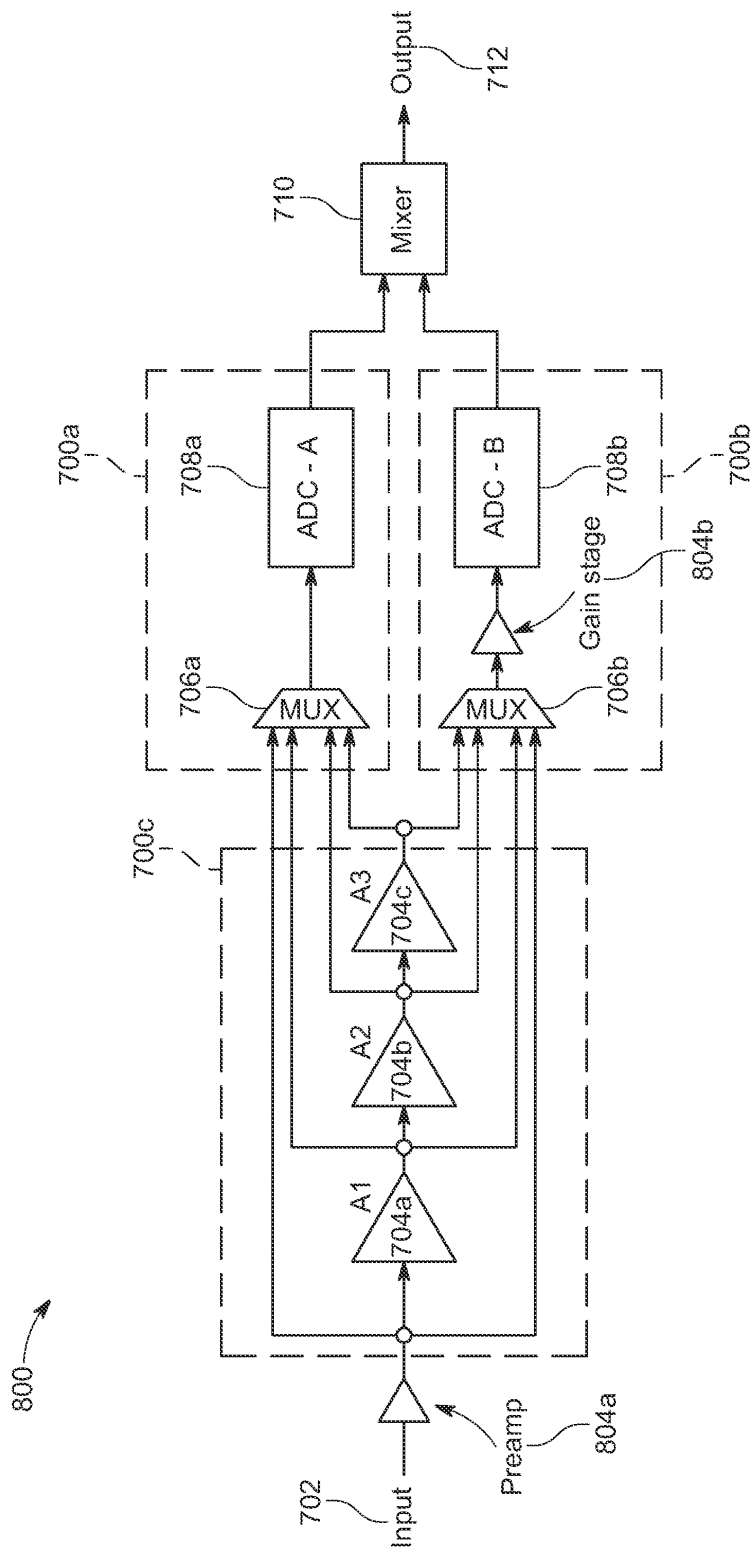
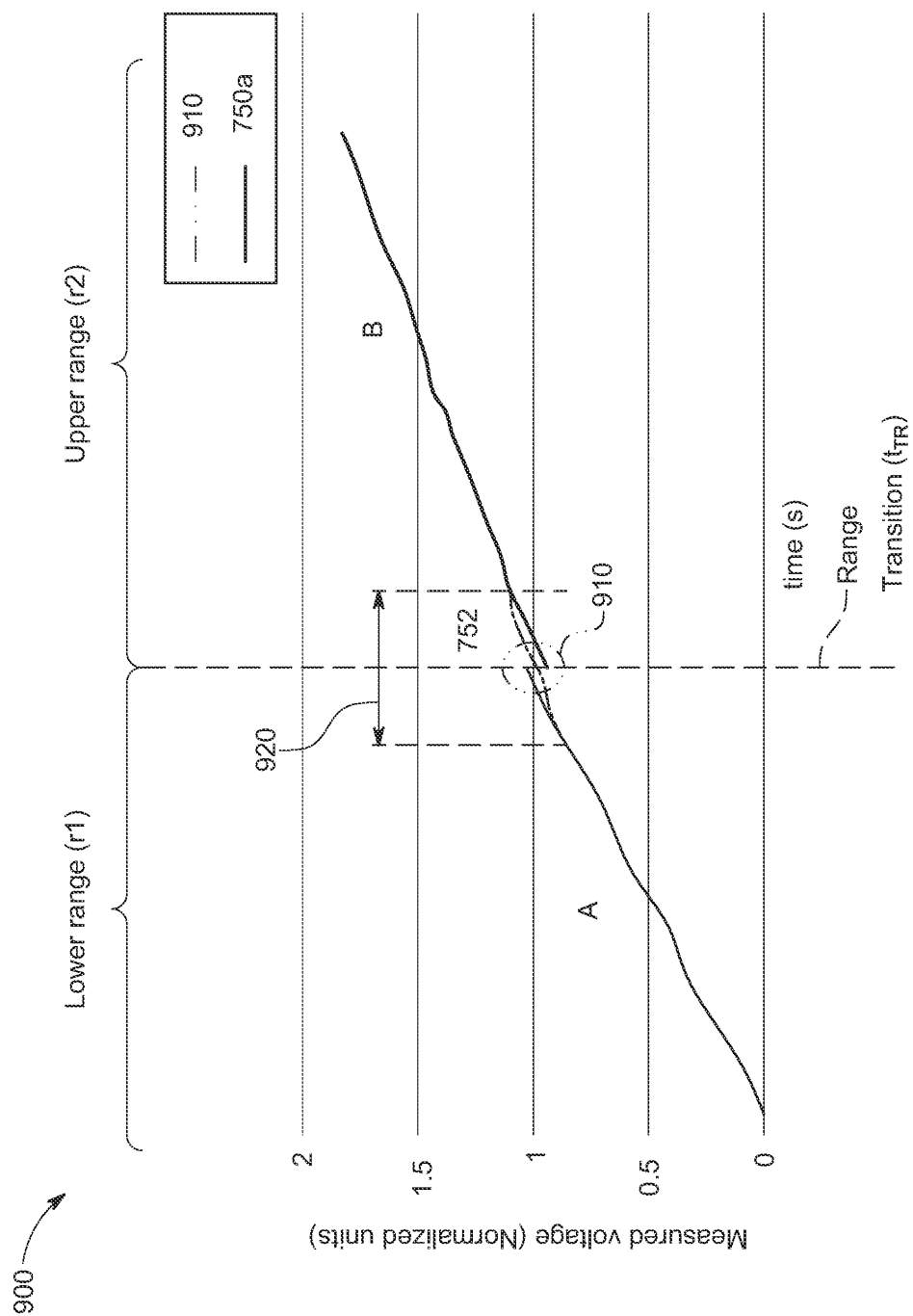


FIG. 8

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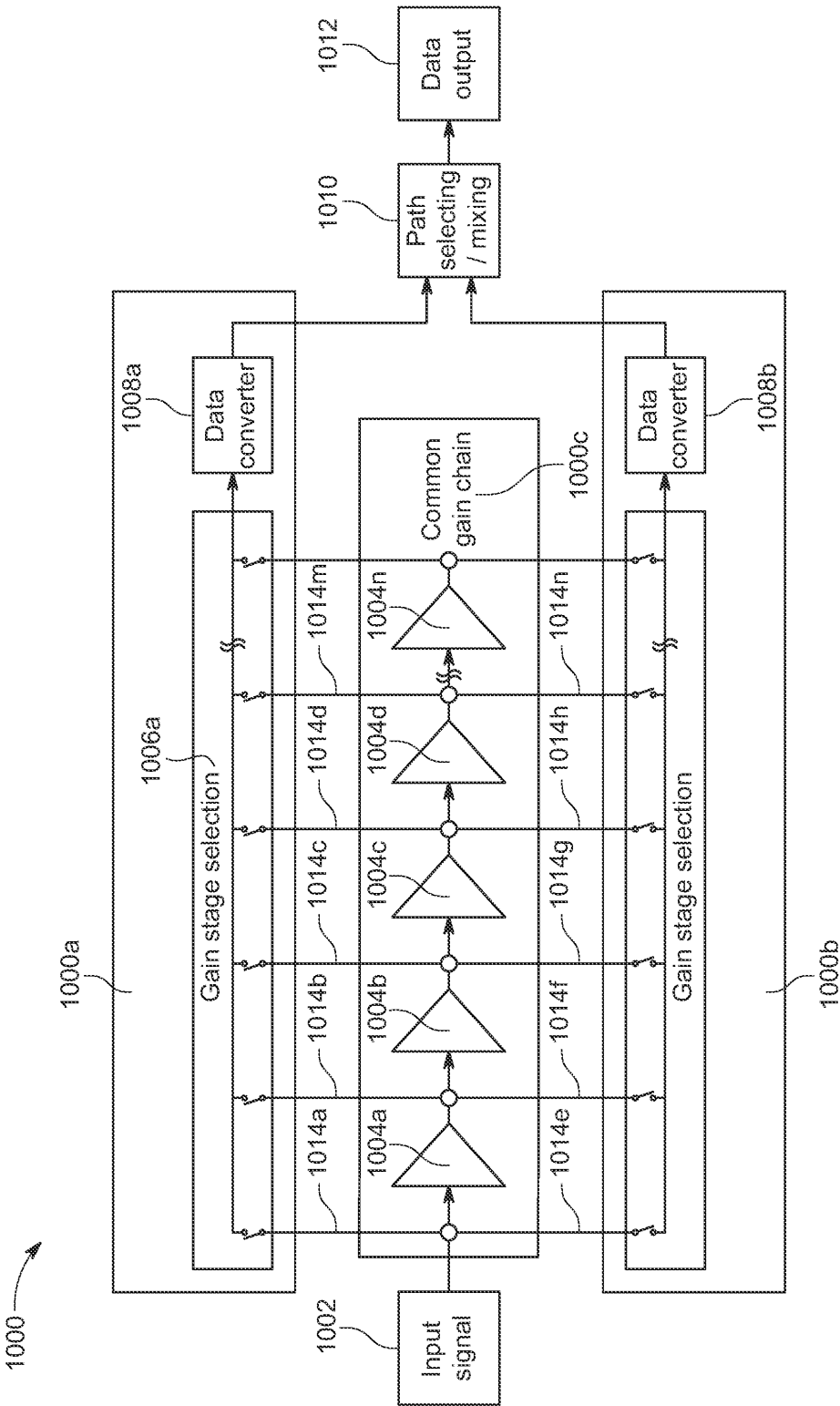


FIG. 10A

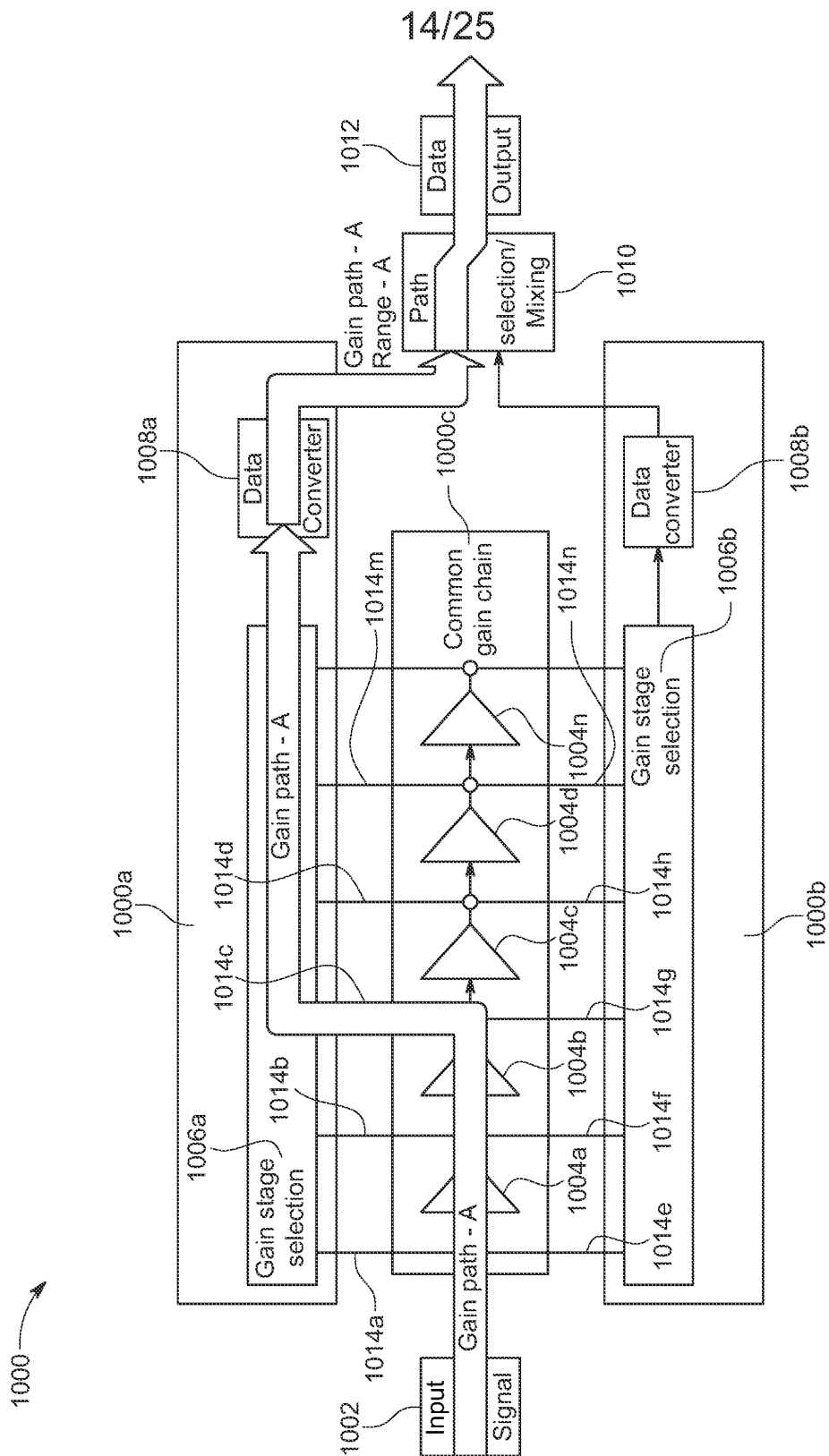


FIG. 10B

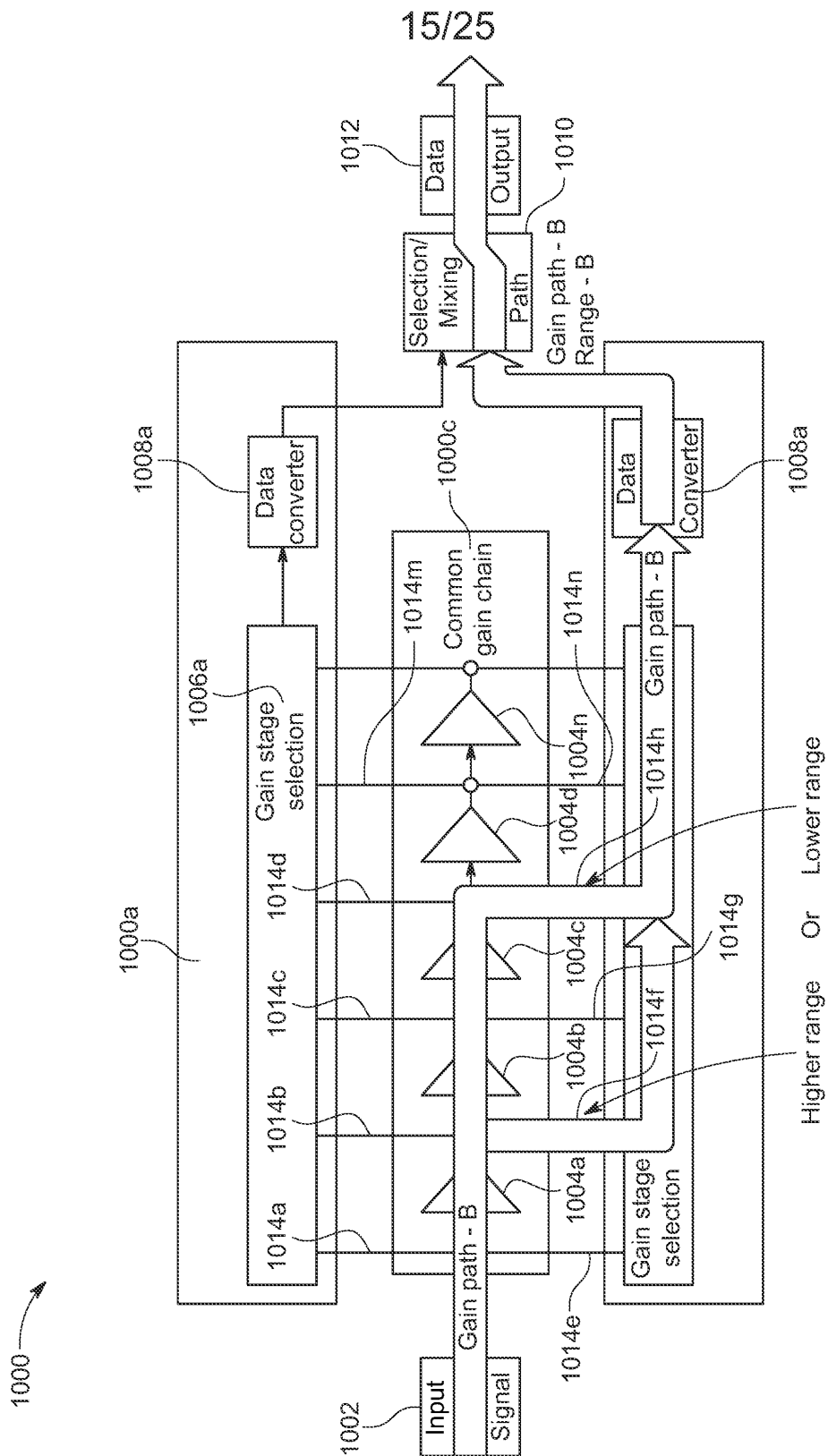


FIG. 10C

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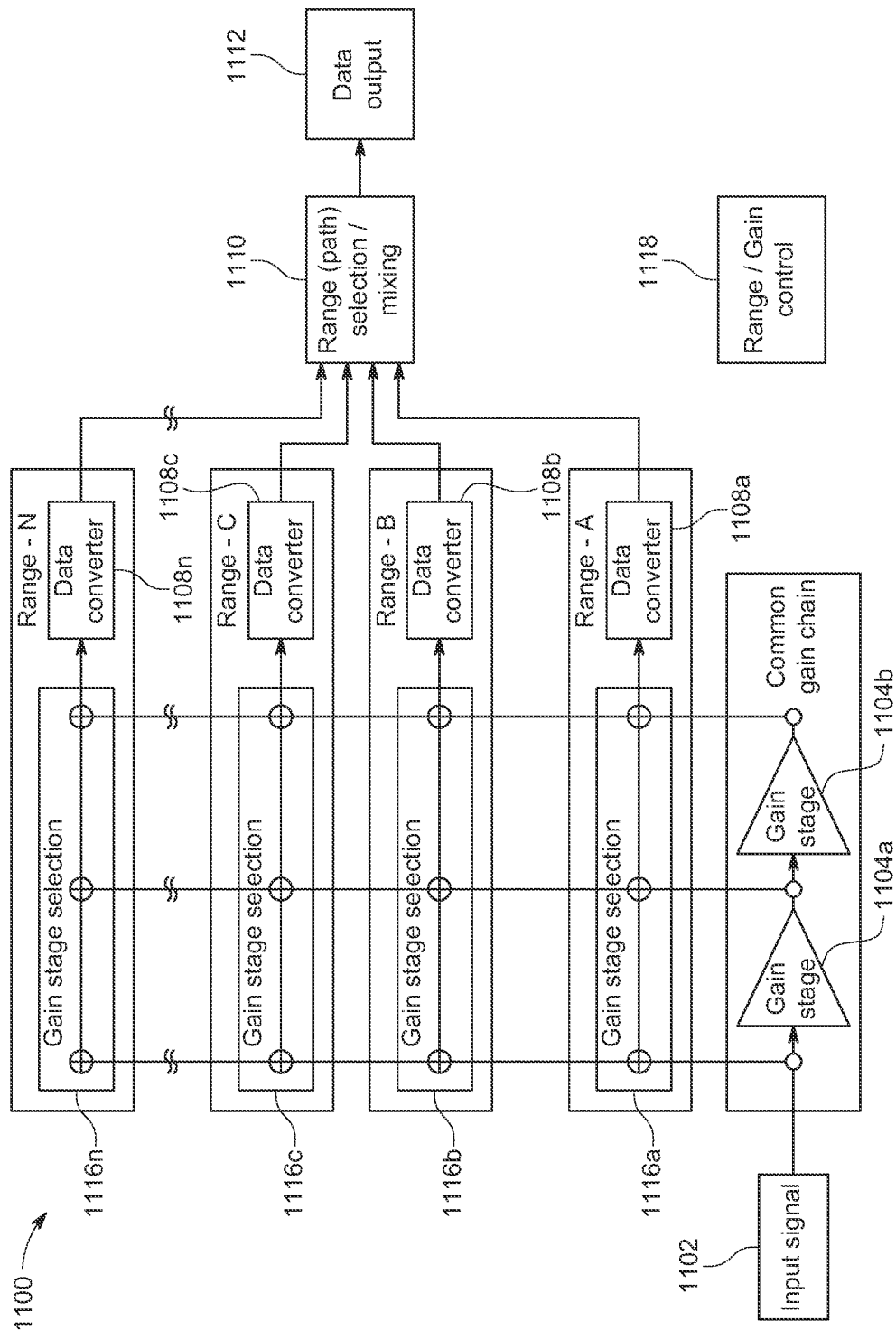


FIG. 11

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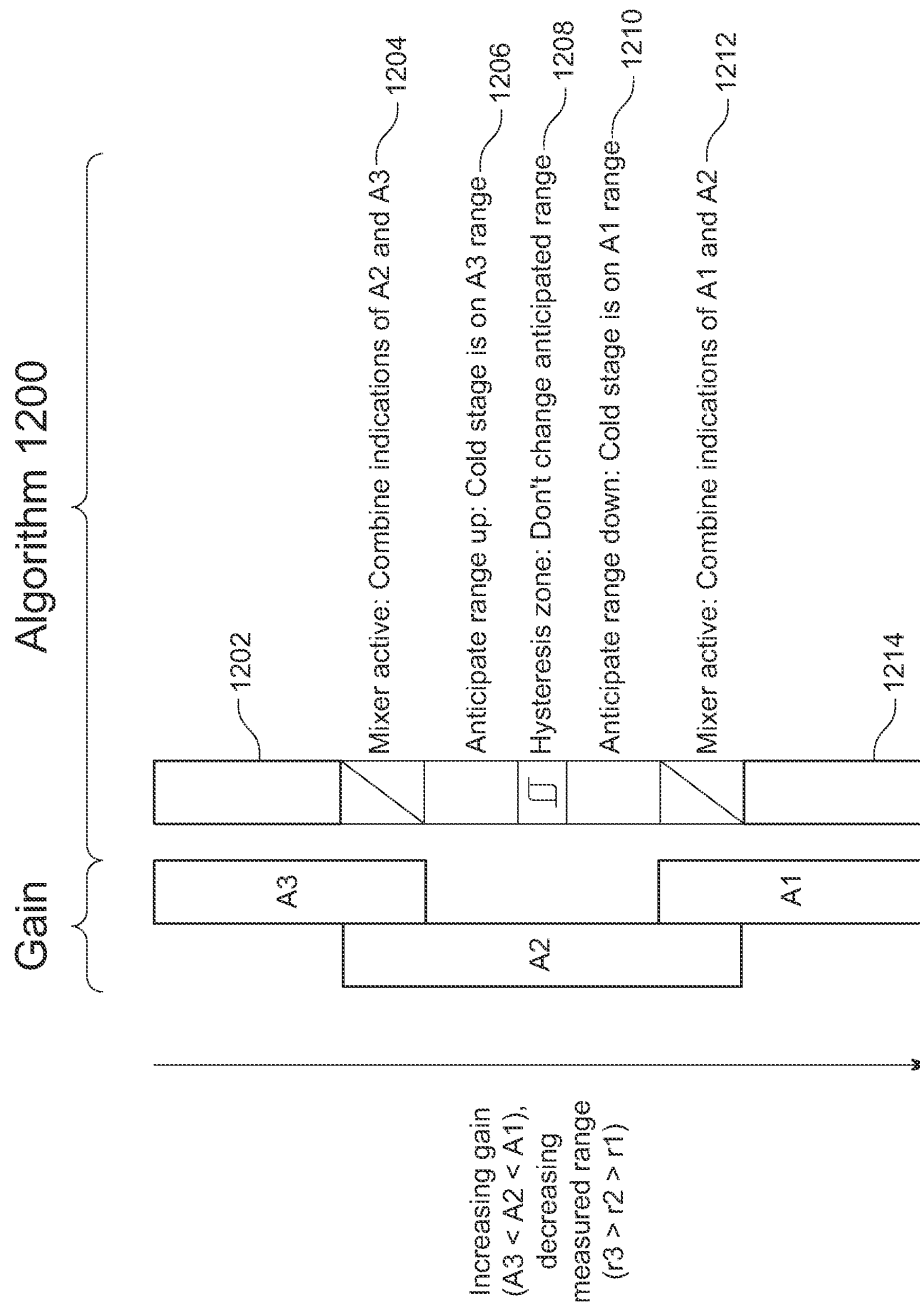


FIG. 12A

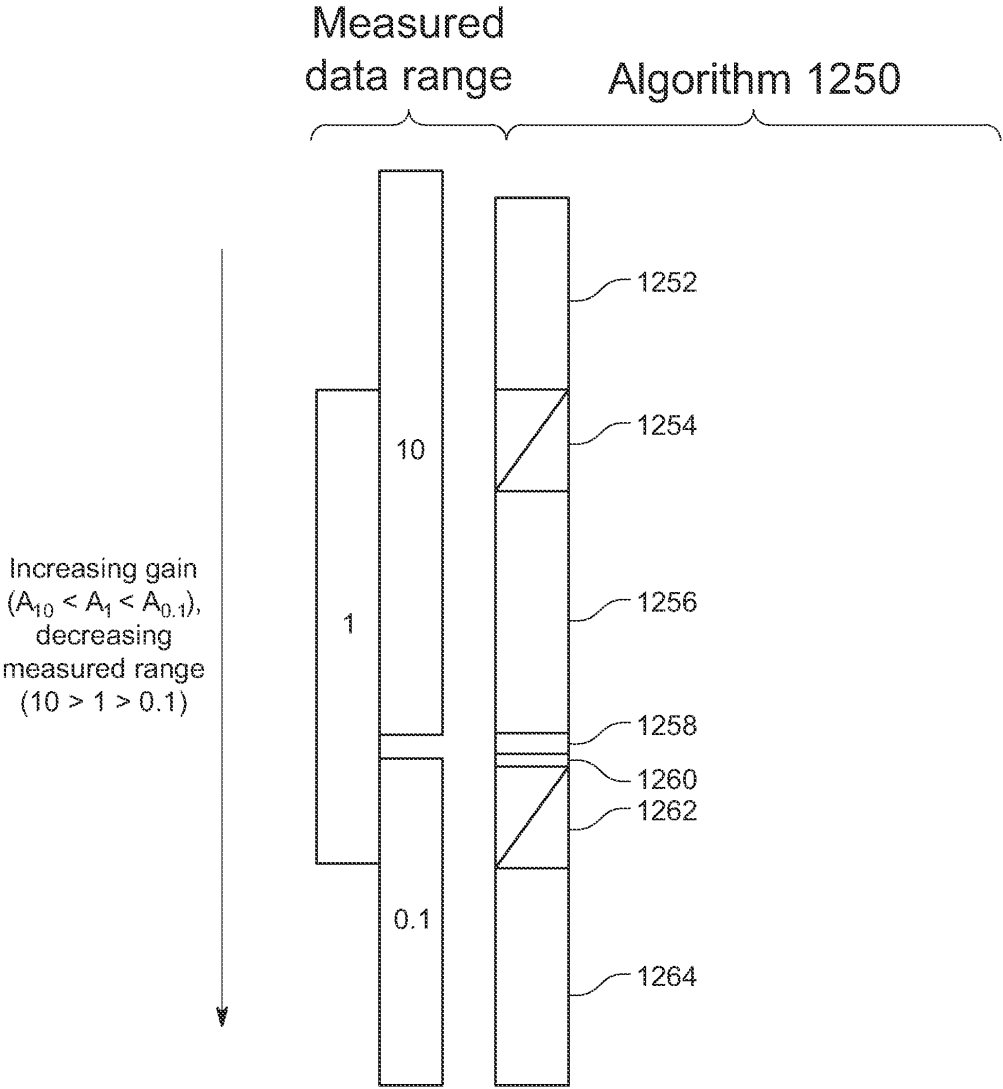


FIG. 12B

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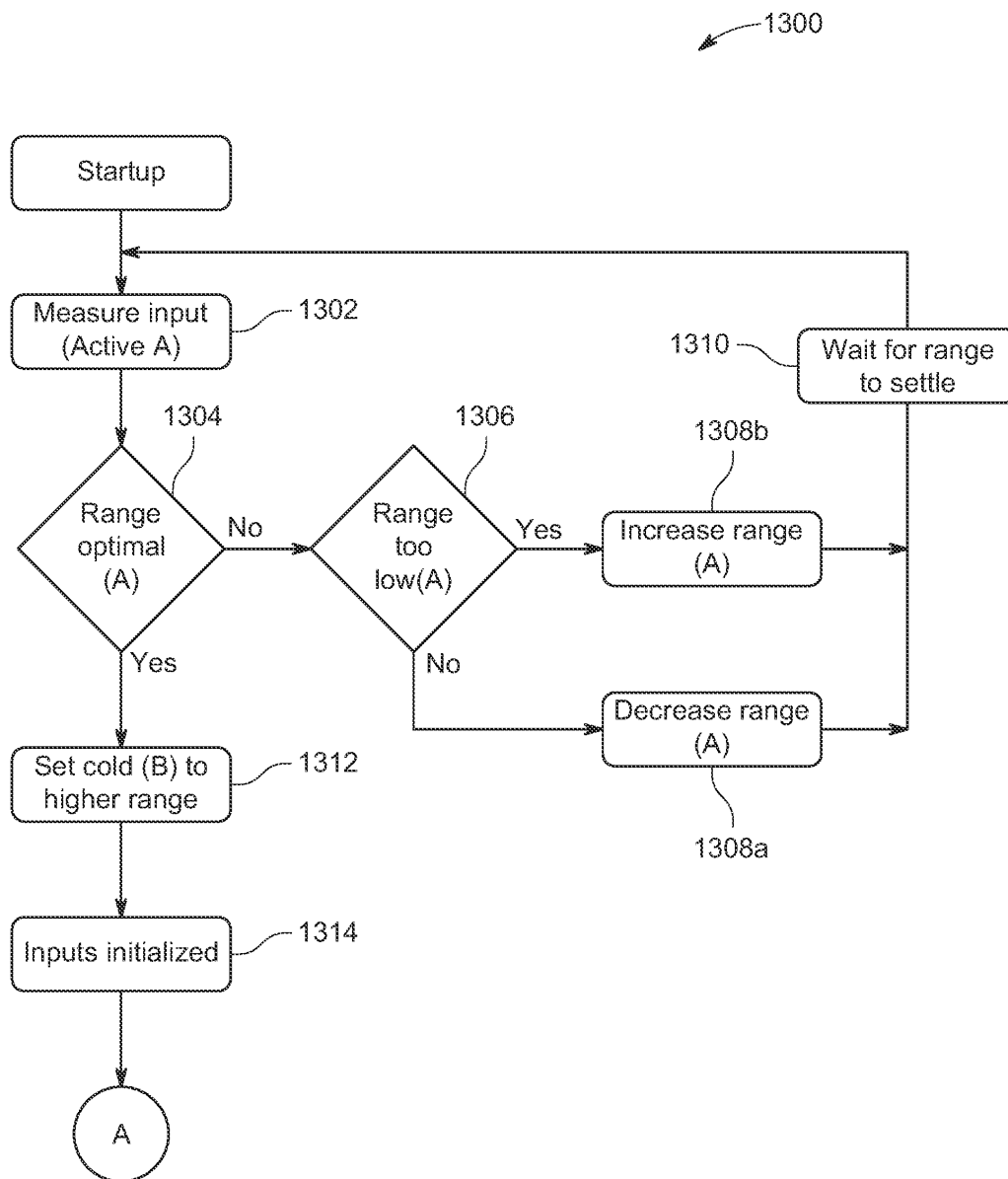


FIG. 13A

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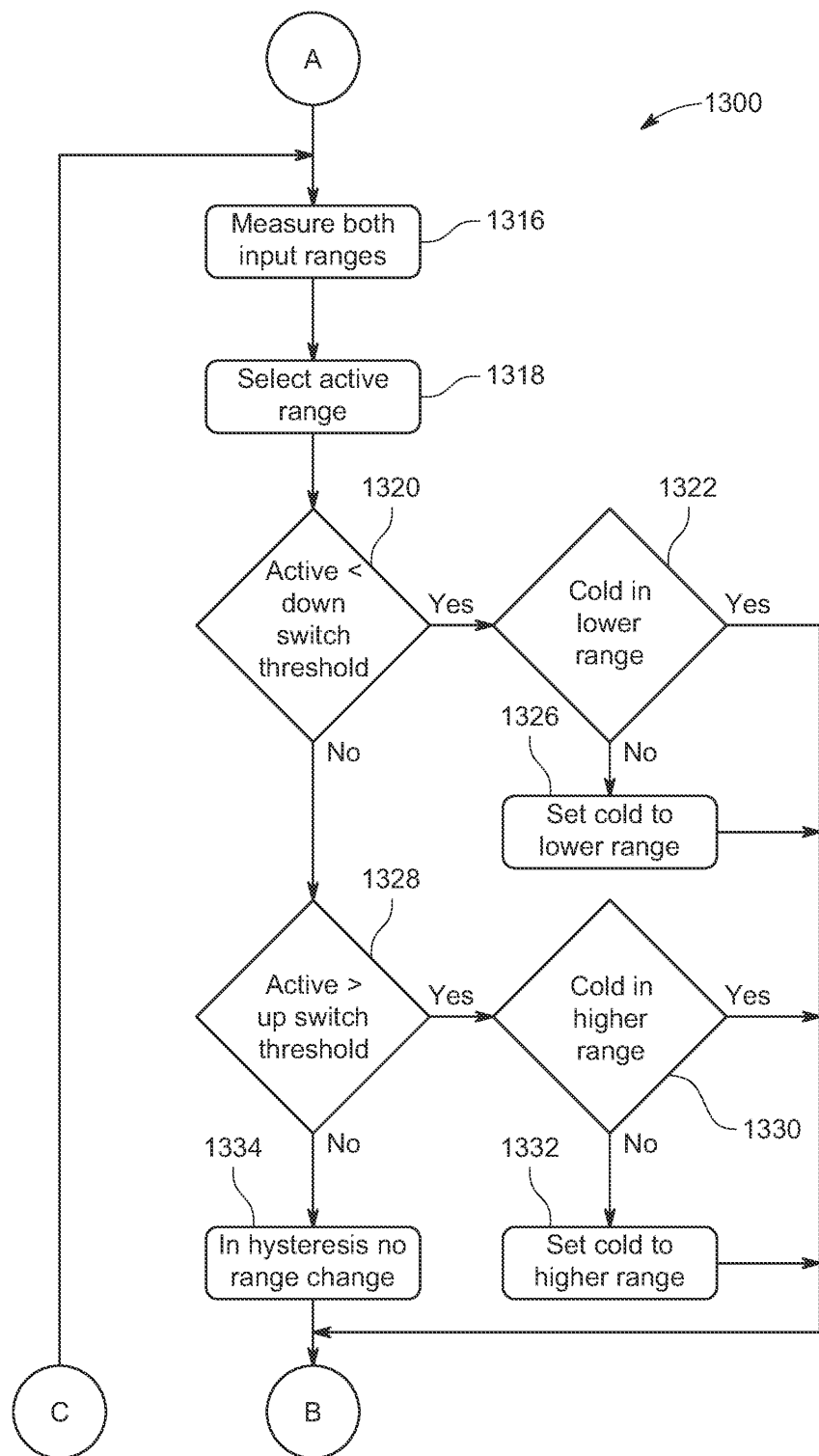


FIG. 13B

SUBSTITUTE SHEET (RULE 26)

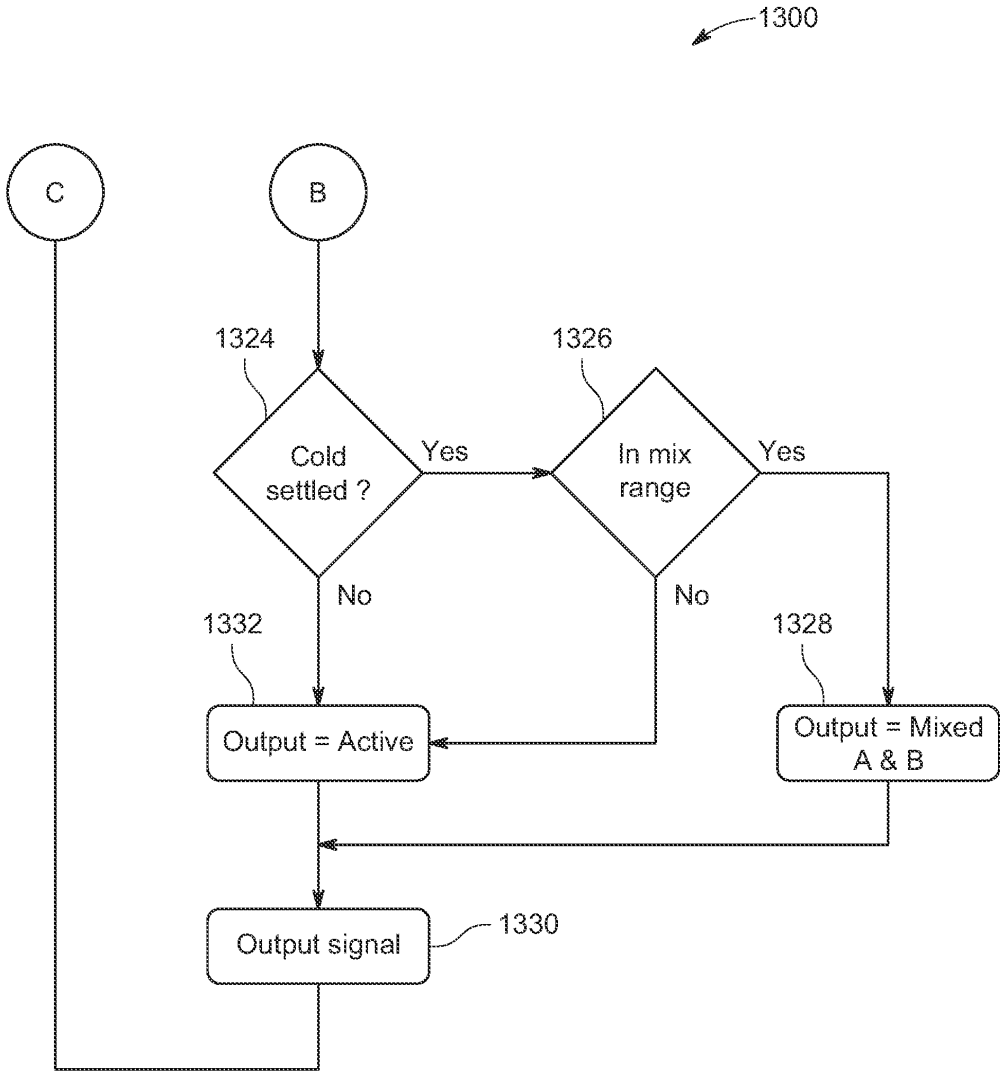


FIG. 13C

1400

| Range enumeration | Input voltage | Enable preamp | Enable stage B | Enable stage C |
|-------------------|---------------|---------------|----------------|----------------|
| 0                 | 1.2+          | 0             | 0              | 0              |
|                   | 1.1-1.2       | Hold previous | 0              | 0              |
| 1                 | 1-1.1         | 1             | 0              | 0              |
| 1                 | 0.7-1         | 1             | 0              | 0              |
| 1                 | 0.12-0.7      | 1             | 0              | 0              |
|                   | 0.11-0.12     | 1             | Hold previous  | 0              |
| 2                 | 0.1-0.11      | 1             | 1              | 0              |
| 2                 | 0.07-0.1      | 1             | 1              | 0              |
| 2                 | 0.012-0.07    | 1             | 1              | 0              |
|                   | 0.011-0.012   | 1             | 1              | Hold previous  |
| 3                 | 0.01-0.011    | 1             | 1              | 1              |
| 3                 | 0.007-0.01    | 1             | 1              | 1              |
| 3                 | 0.0012-0.007  | 1             | 1              | 1              |
|                   | 0.0011-0.0012 | 1             | 1              | 1              |
| 4                 | 0.001-0.0011  | 1             | 1              | 1              |
| 4                 | 0.0007-0.001  | 1             | 1              | 1              |
| 4                 | <0.0007       | 1             | 1              | 1              |

A

FIG. 14

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| Range | Channel A gain | Channel B gain | Mixing | Description                     |
|-------|----------------|----------------|--------|---------------------------------|
| 10V   | 1              | -              | All A  | Out of ranges                   |
|       | 1              | Hold previous  | All A  | Hysteresis                      |
| 1V    | 1              | 10             | All A  | Anticipate signal will decrease |
| 1V    | 1              | 10             | Active | Interpolating                   |
| 1V    | 1              | 10             | All B  | Anticipate signal will increase |
|       | Hold previous  | 10             | All B  | Hysteresis                      |
| 100mV | 100            | 10             | All B  | Anticipate signal will decrease |
| 100mV | 100            | 10             | Active | Interpolating                   |
| 100mV | 100            | 10             | All A  | Anticipate signal will increase |
|       | 100            | Hold previous  | All A  | Hysteresis                      |
| 10mV  | 100            | 10000          | All A  | Anticipate signal will decrease |
| 10mV  | 100            | 10000          | Active | Interpolating                   |
| 10mV  | 100            | 10000          | All B  | Anticipate signal will increase |
|       | Hold previous  | 10000          | All B  | Hysteresis                      |
| 1mV   | 10000          | 10000          | All B  | Anticipate signal will decrease |
| 1mV   | 10000          | 10000          | Active | Interpolating                   |
| 1mV   | 10000          | 10000          | All A  | Out of ranges                   |

FIG. 14 (Cont.)

A

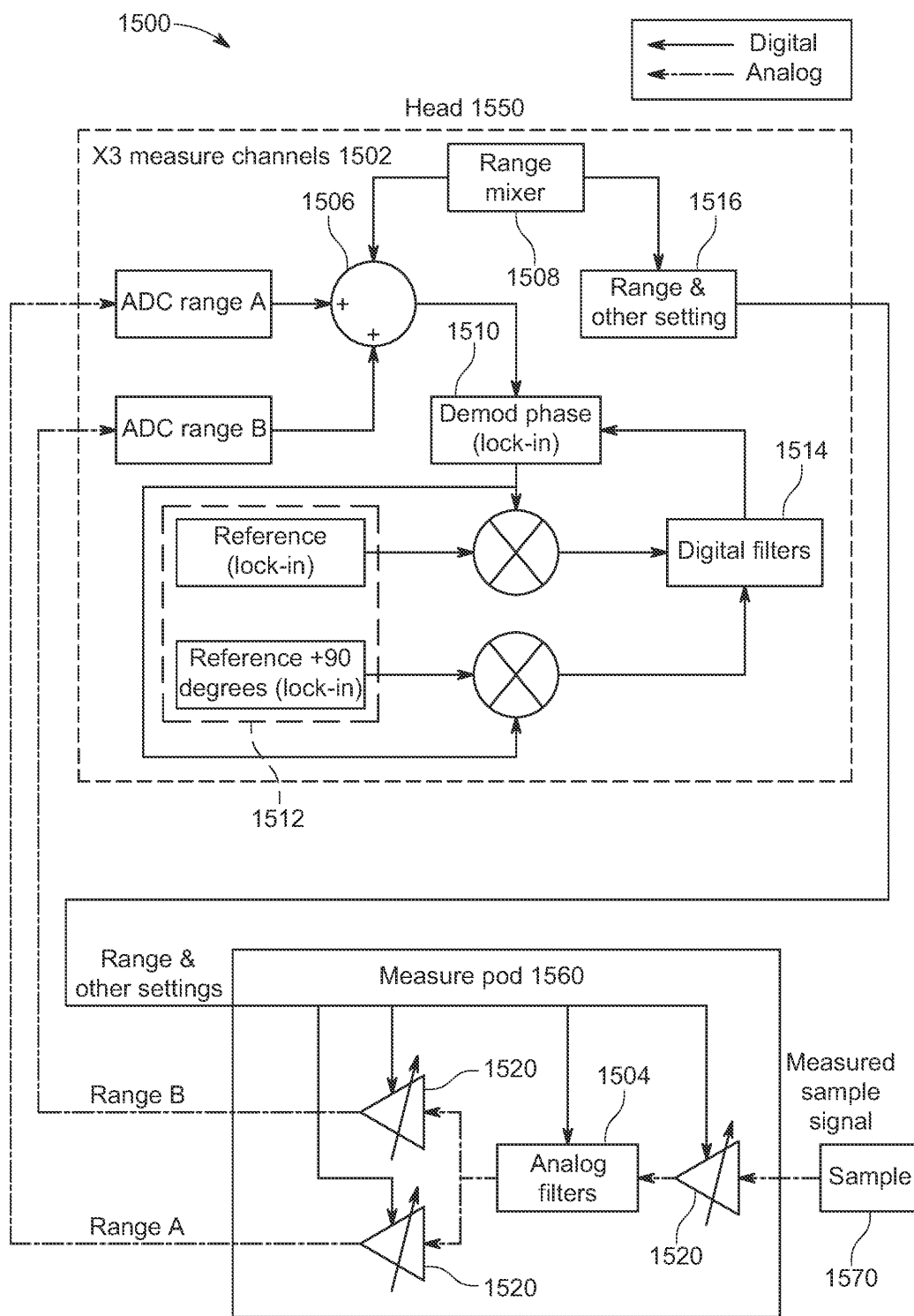


FIG. 15

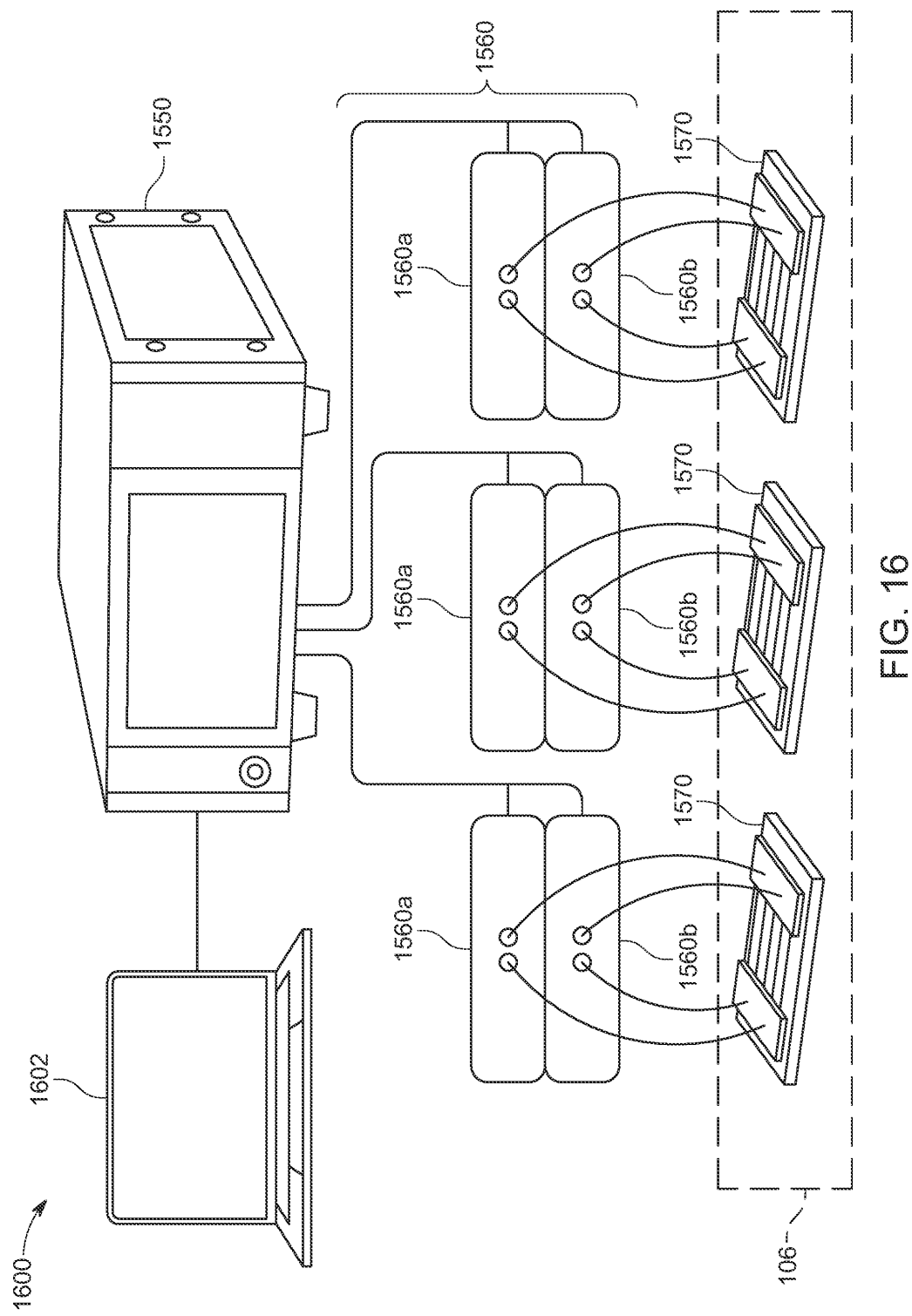


FIG. 16