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**CASING SEGMENT**

- TRANSMISSION CROSSOVER ARRANGEMENT
 - > AT LEAST ONE EXTERNAL COIL ANTENNA
 - >CO-AXIAL
 - >TILTED
 - >MULTI-COMPONENT
 - > AT LEAST ONE ADAPTER FOR ACCESS ALONG INTERIOR
 - >INDUCTIVE COUPLER
 - >ELECTRODE-BASED COUPLER
 - >CAPACITIVE COUPLING
 - >GALVANIC COUPLING
 - >ENERGY STORAGE DEVICE
 - >DATA STORAGE DEVICE
 - >SENSORS
 - INTERIOR SENSORS
 - EXTERIOR SENSORS
 - >CONTROL UNIT/CIRCUITRY
 - >TRANSMISSION CONTROL
 - >ADDRESSING SCHEME
 - >MODULATION SCHEME
 - >MULTIPLEXING
 - >TIMING
 - >POWER MANAGEMENT
 - >RECEPTION CONTROL
 - >ADDRESSING SCHEME
 - >DEMODULATION SCHEME
 - >DEMULTIPLEXING
 - >NON-CONDUCTIVE WINDOWS IN CONDUCTIVE TUBULAR
 - >RECESSES/COVERS INTEGRATED WITH CONDUCTIVE TUBULAR FOR TRANSMISSION CROSSOVER ARRANGEMENT COMPONENTS

FIG. 1

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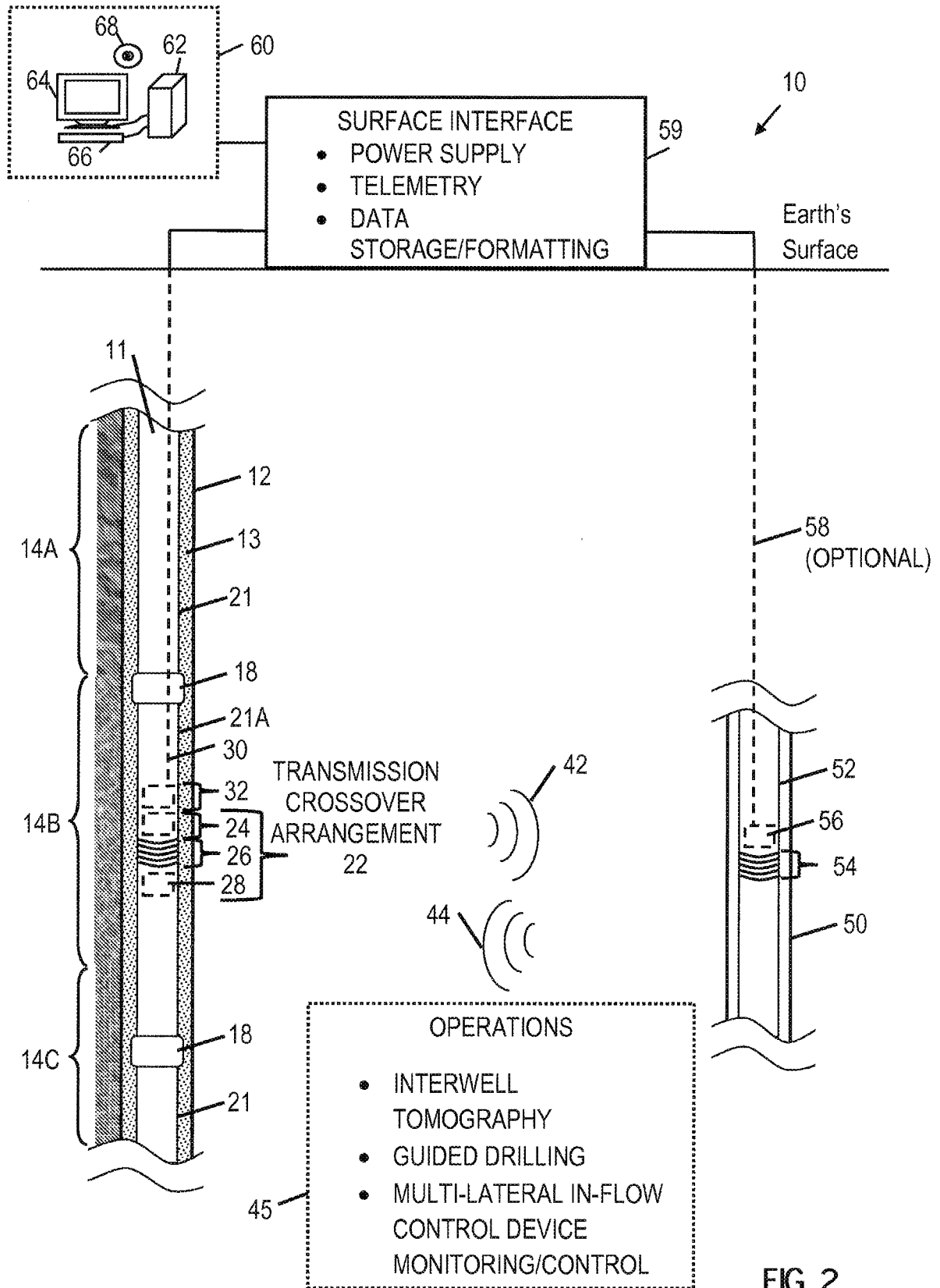
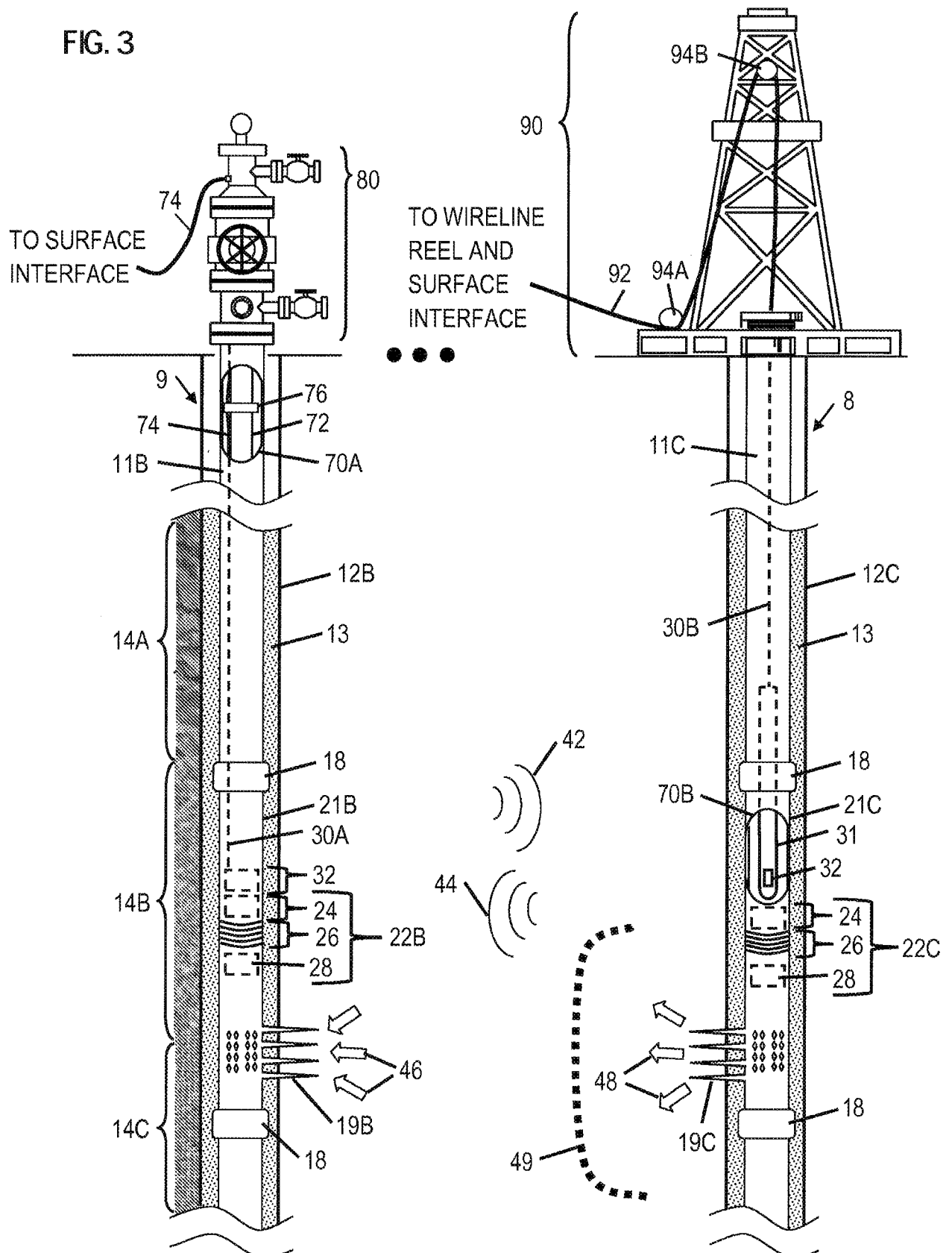


FIG. 2

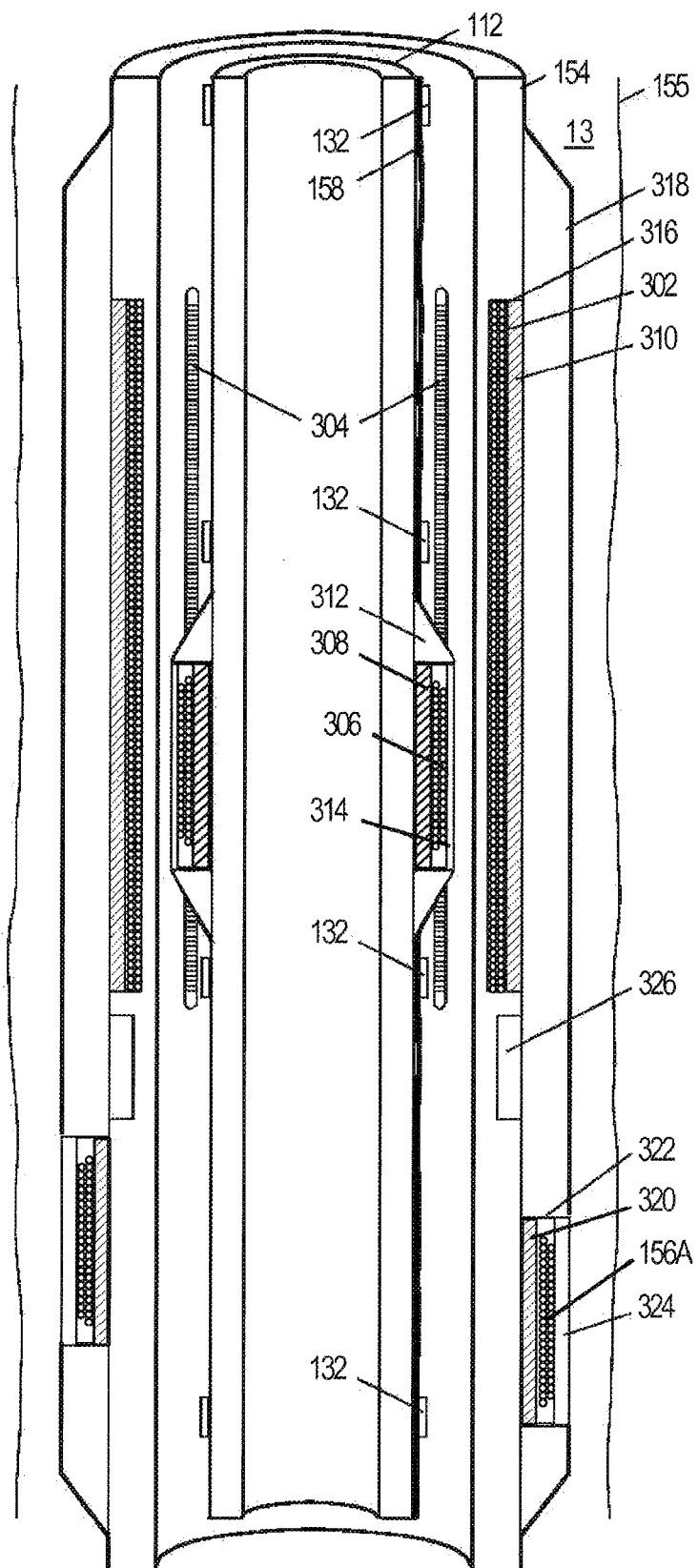
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FIG. 3



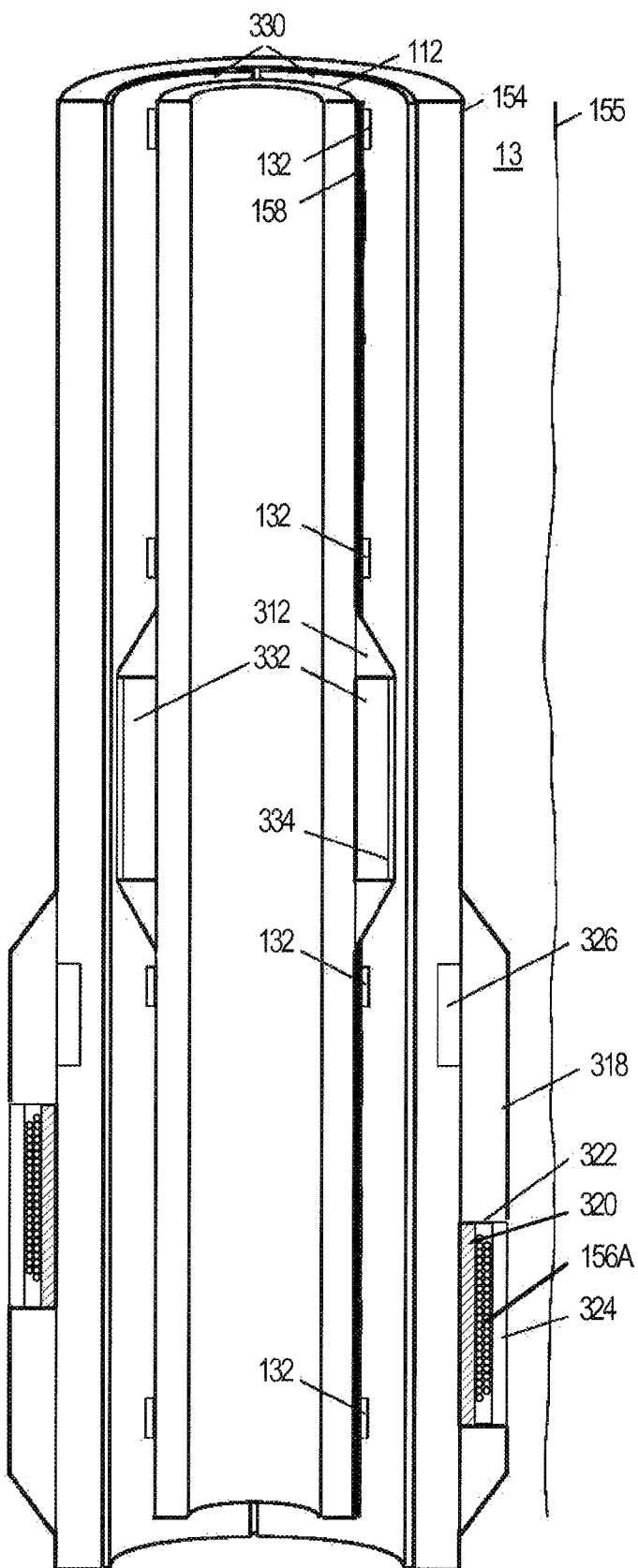
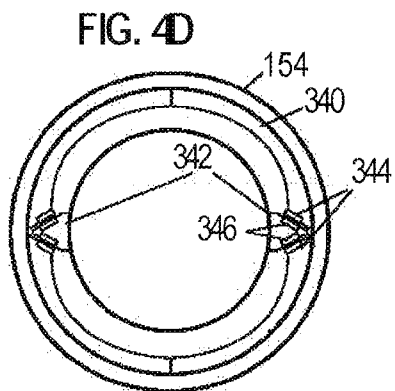
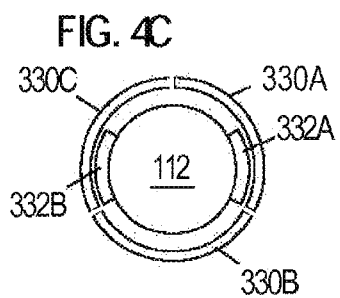
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FIG. 4A

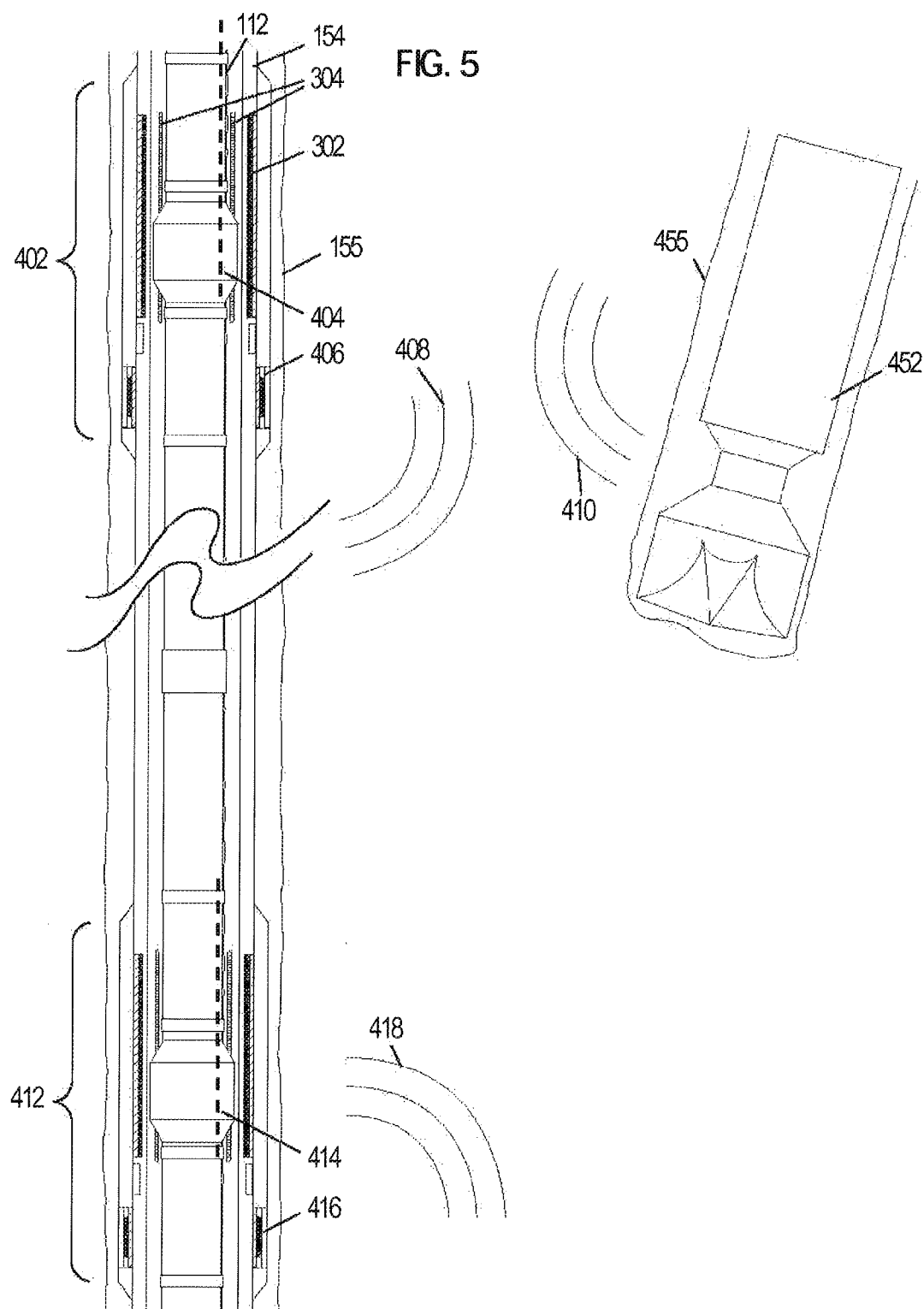


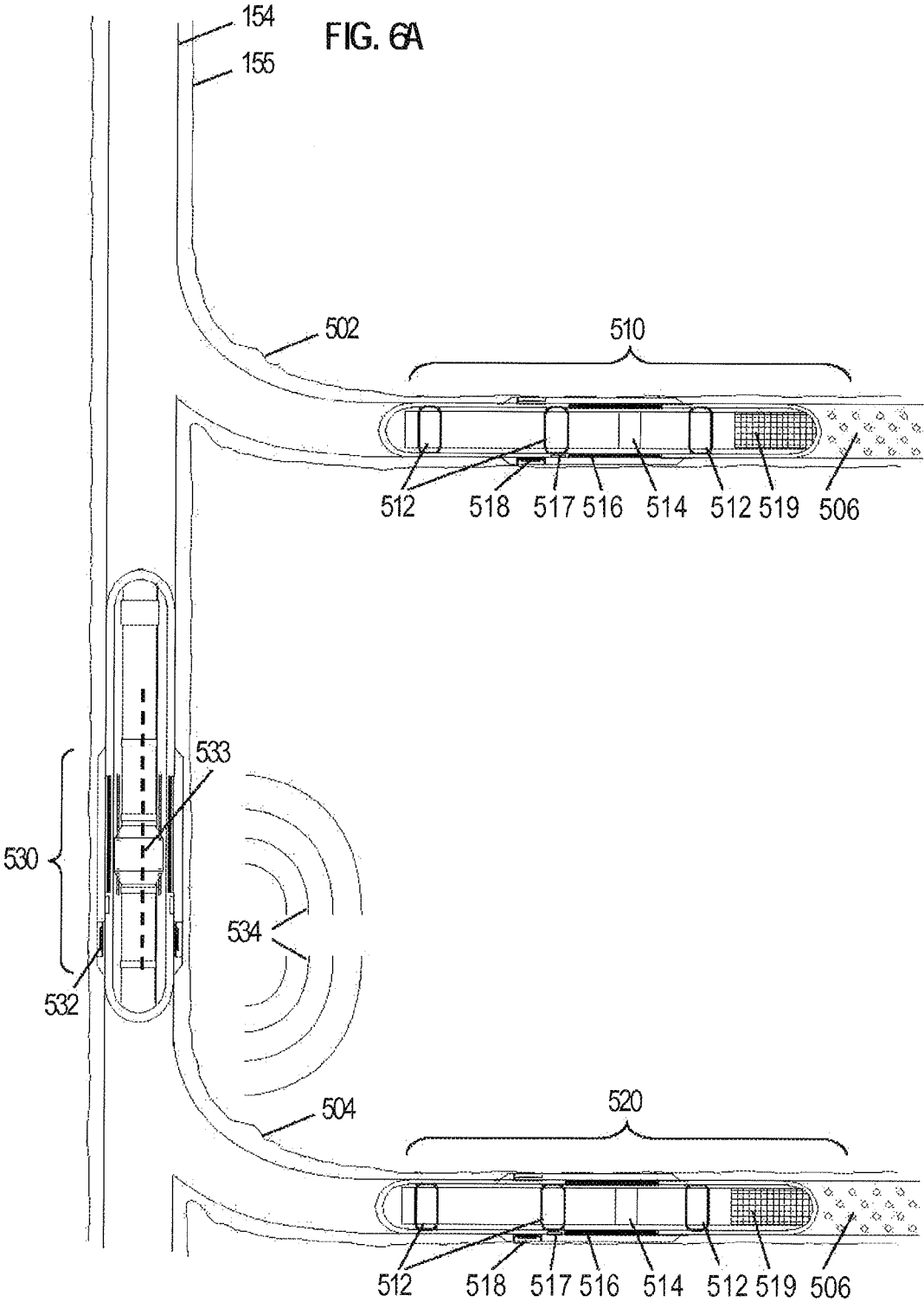
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FIG. 4B

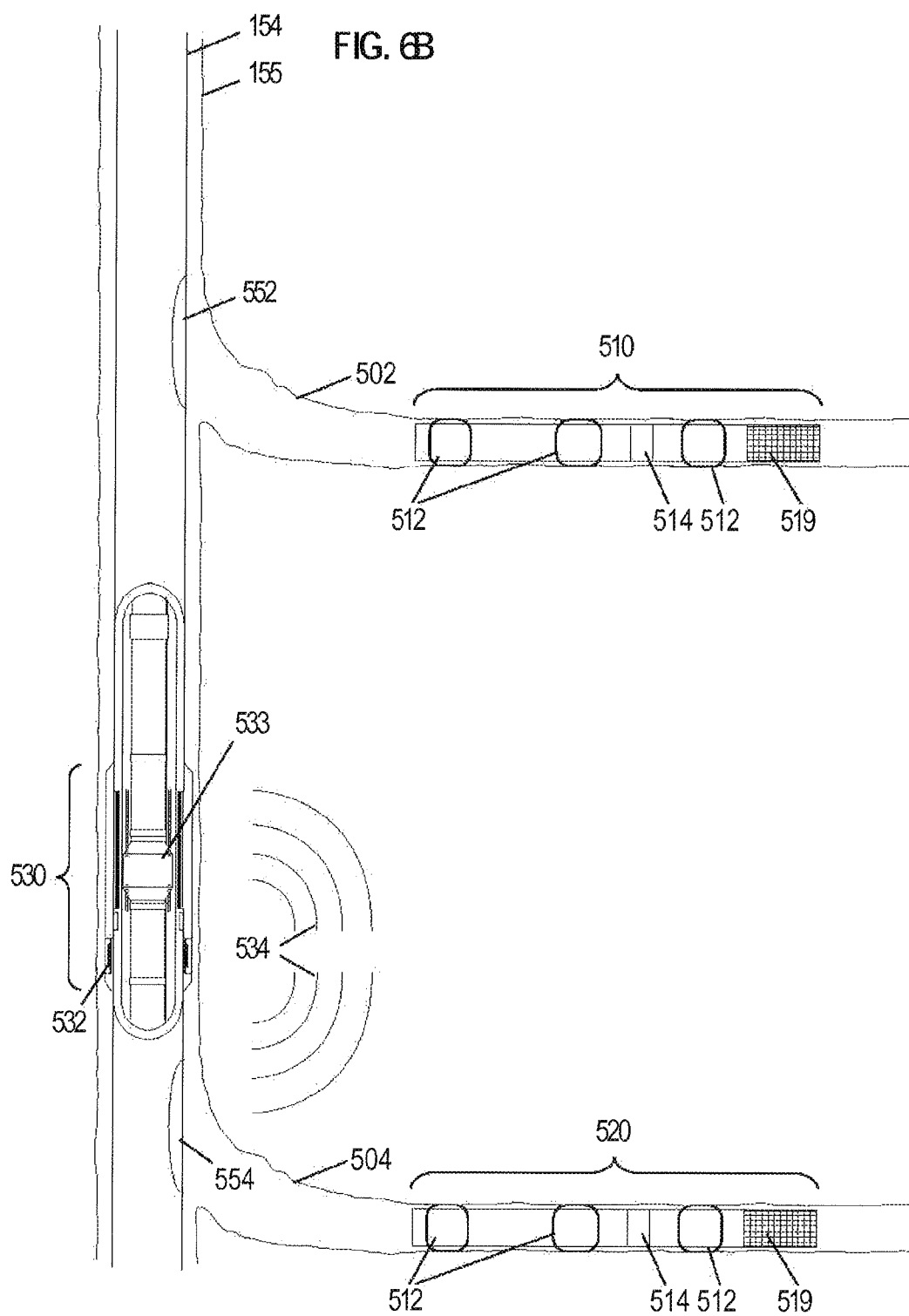


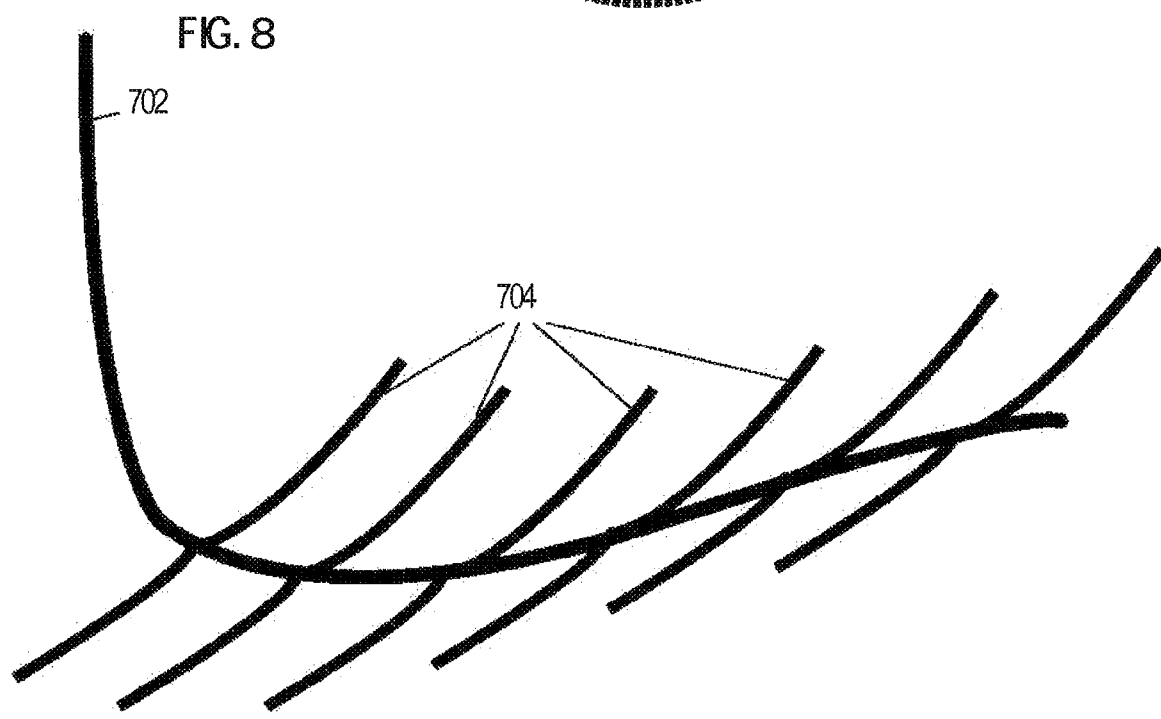
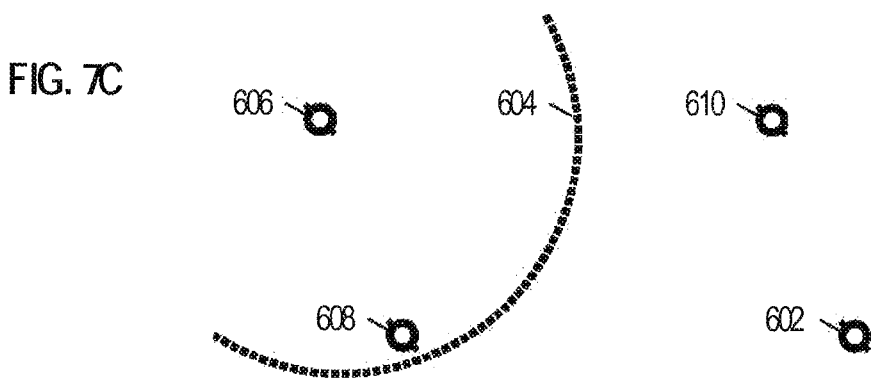
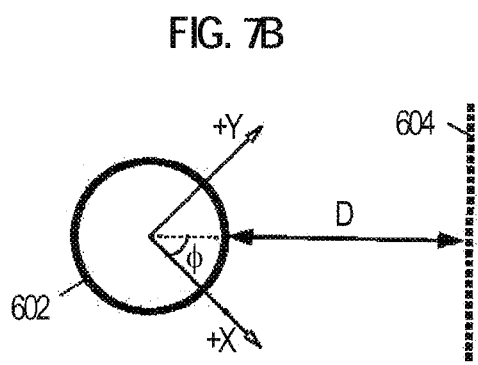
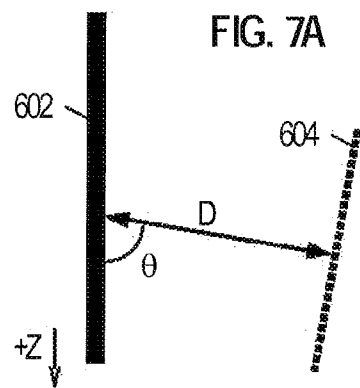
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FIG. 9A

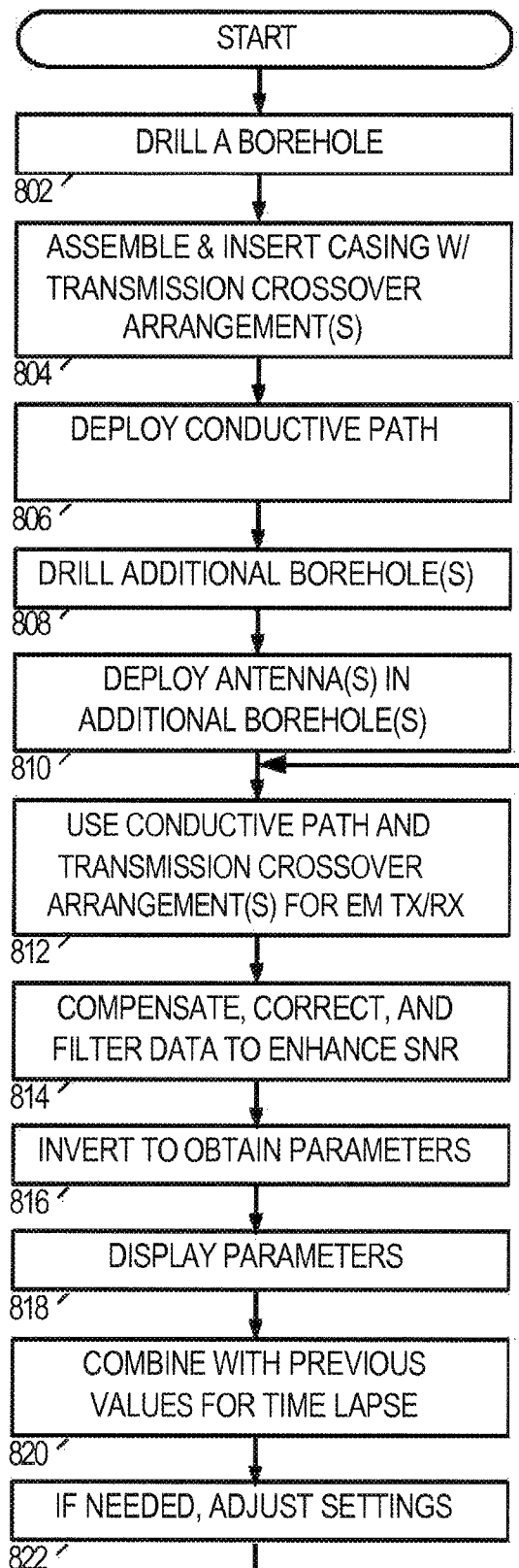
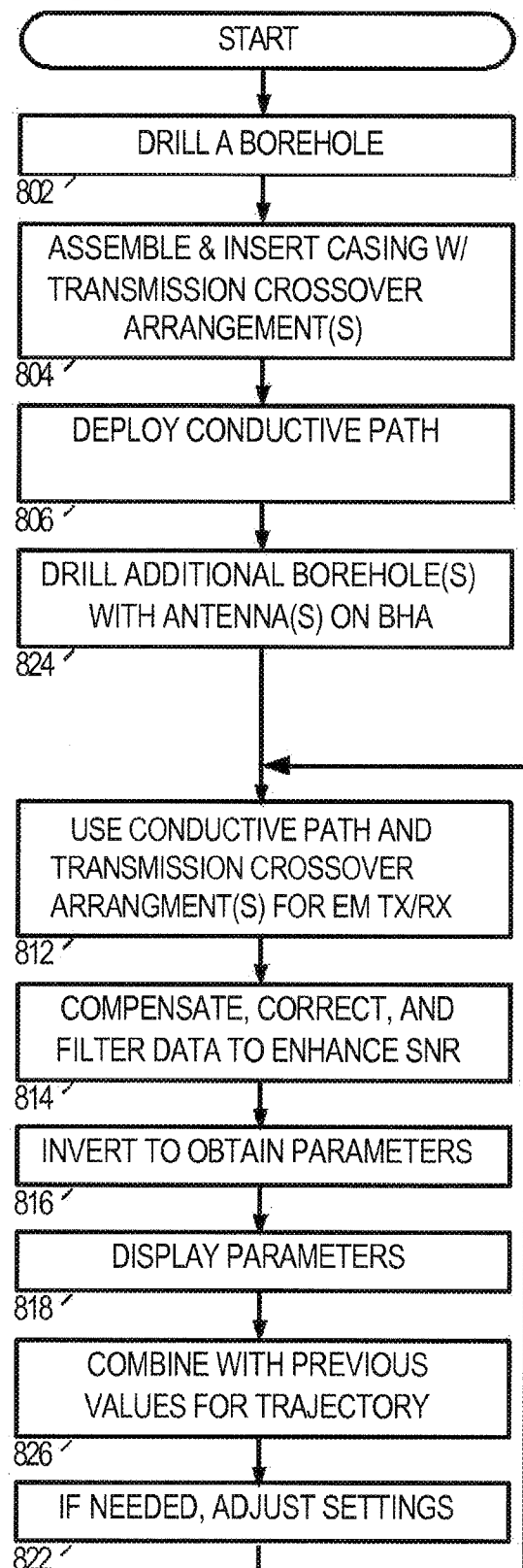


FIG. 9B



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