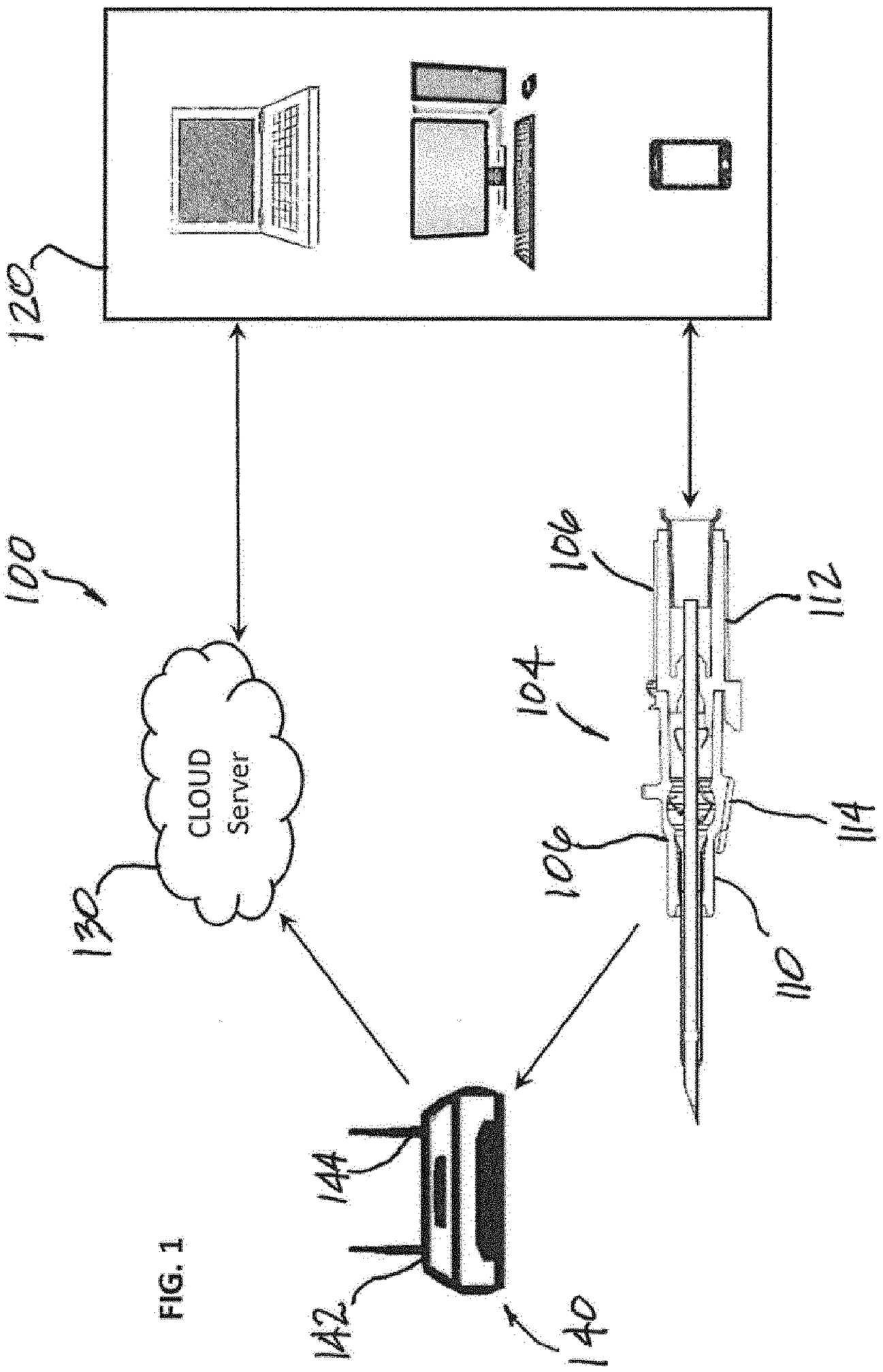


FIG. 1

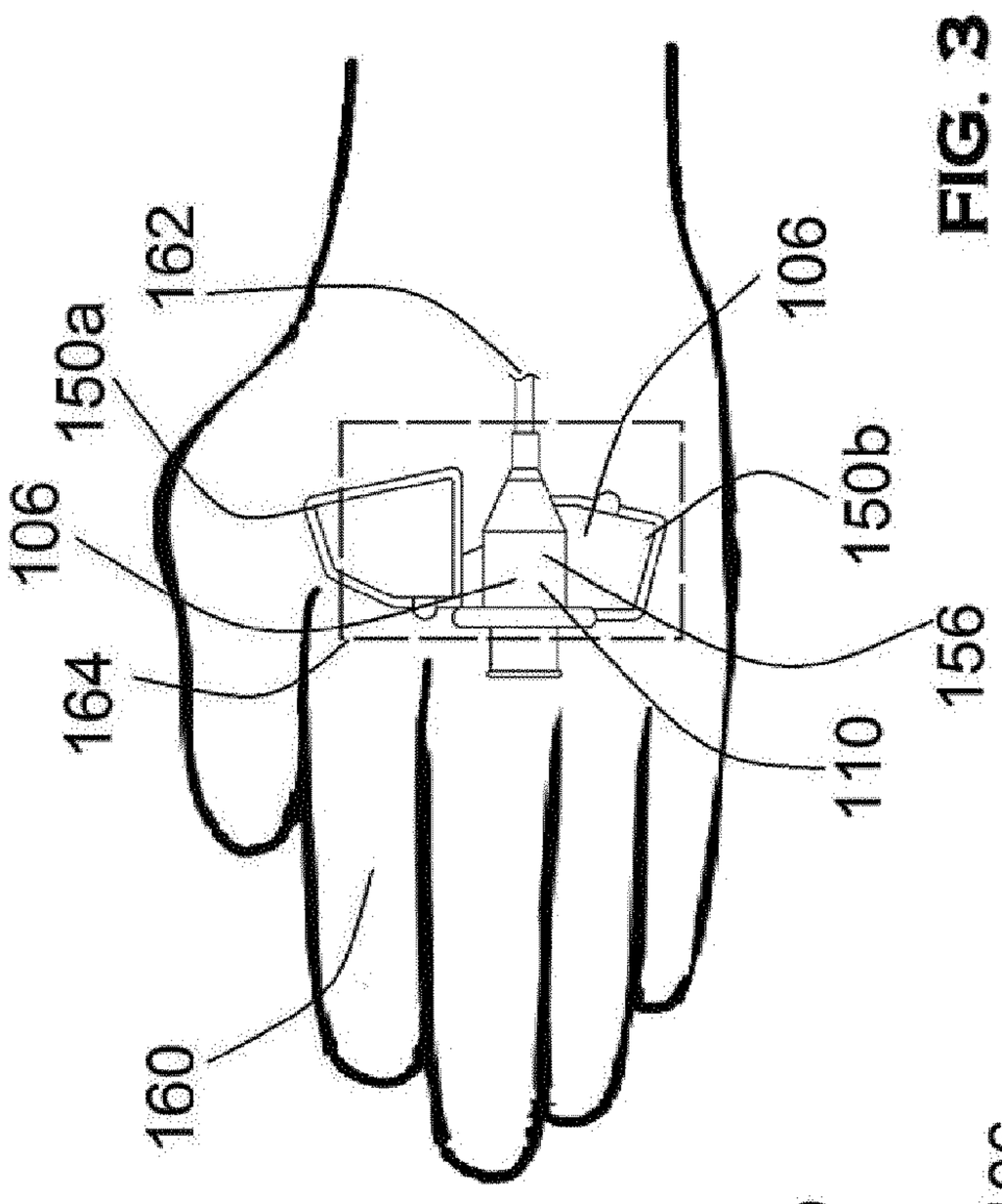

162
150a
106
164
160
106
150b
156
110

FIG. 3

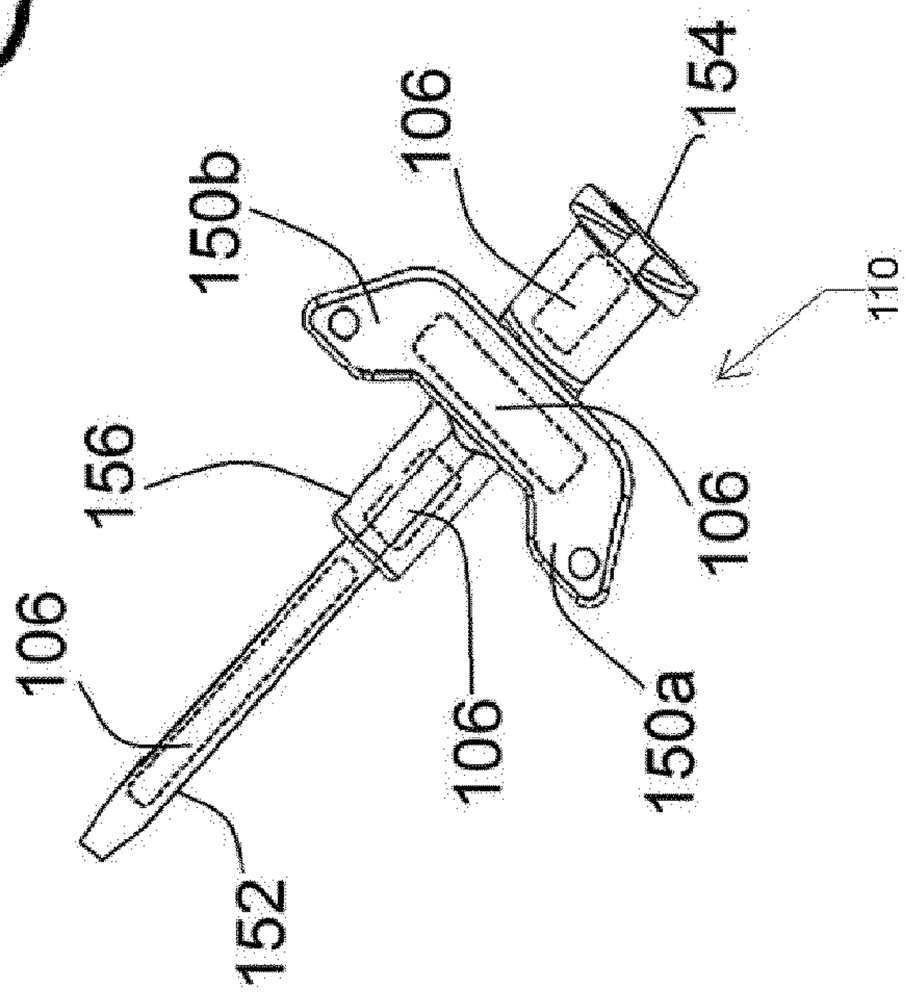

154
106
150b
110
156
106
106
106
150a
152

FIG. 2

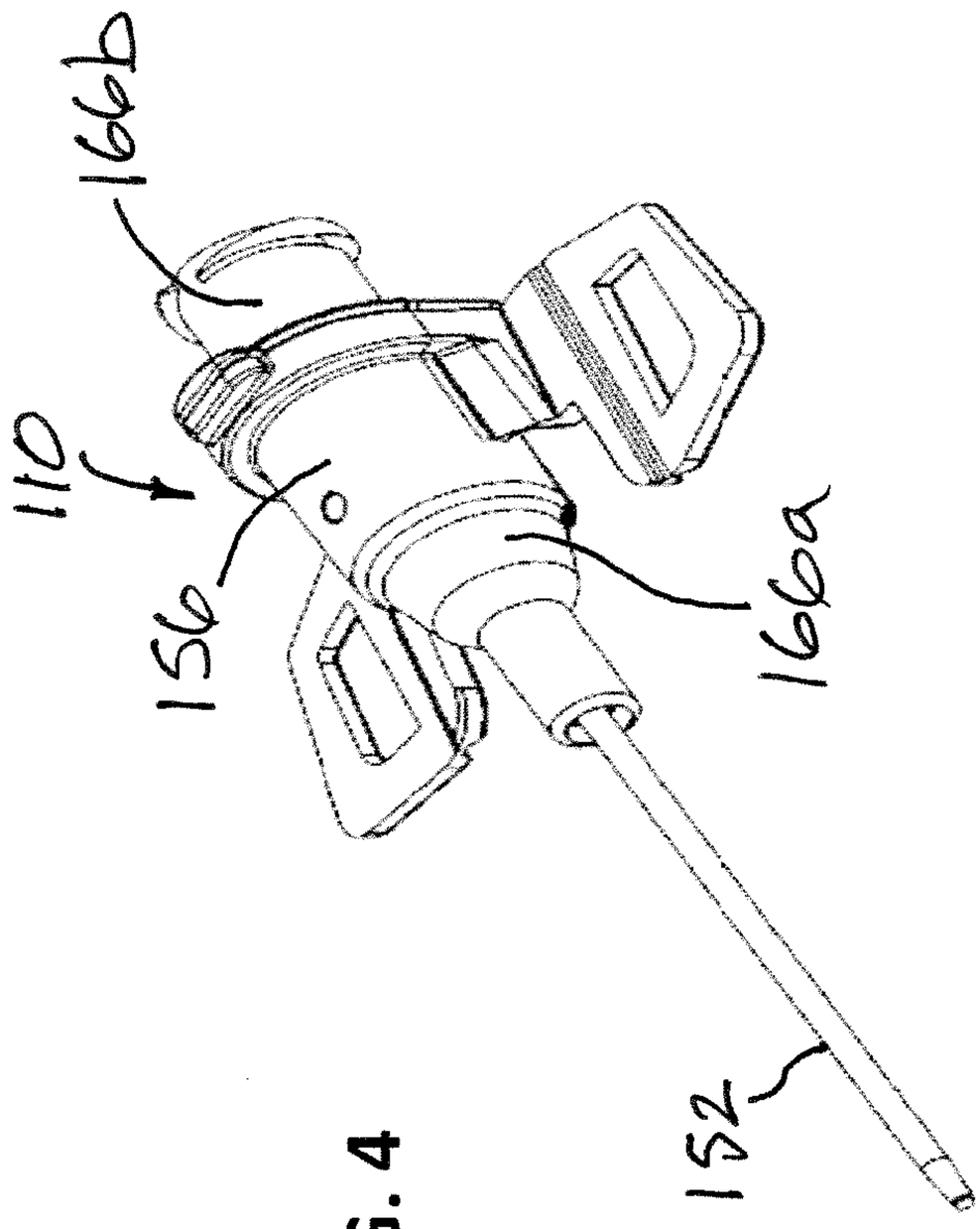


FIG. 4

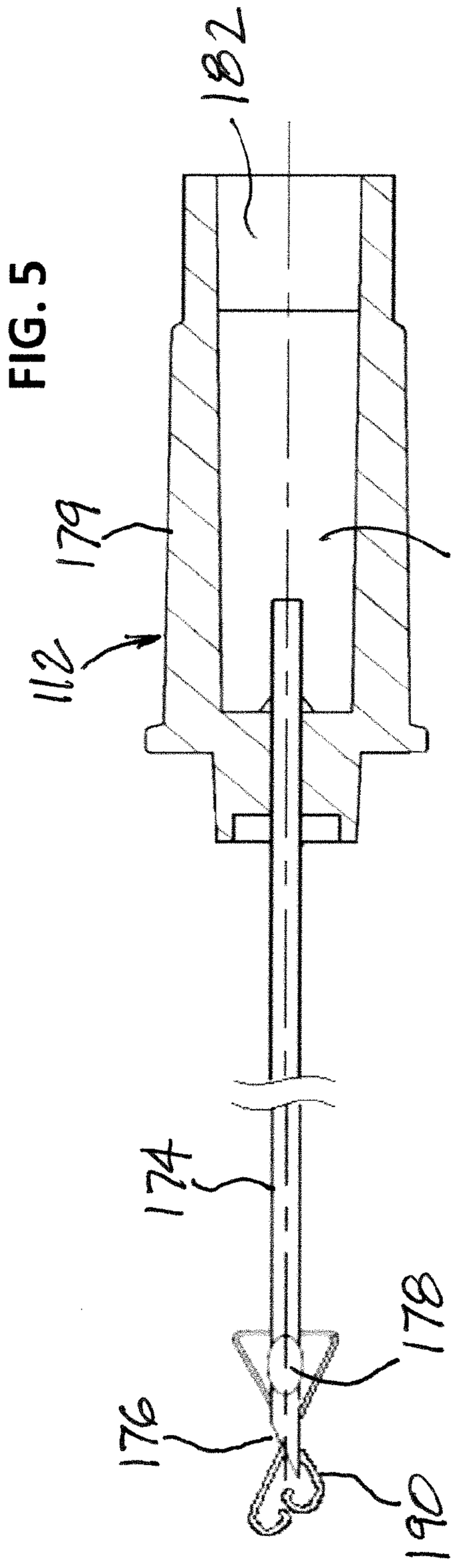


FIG. 5

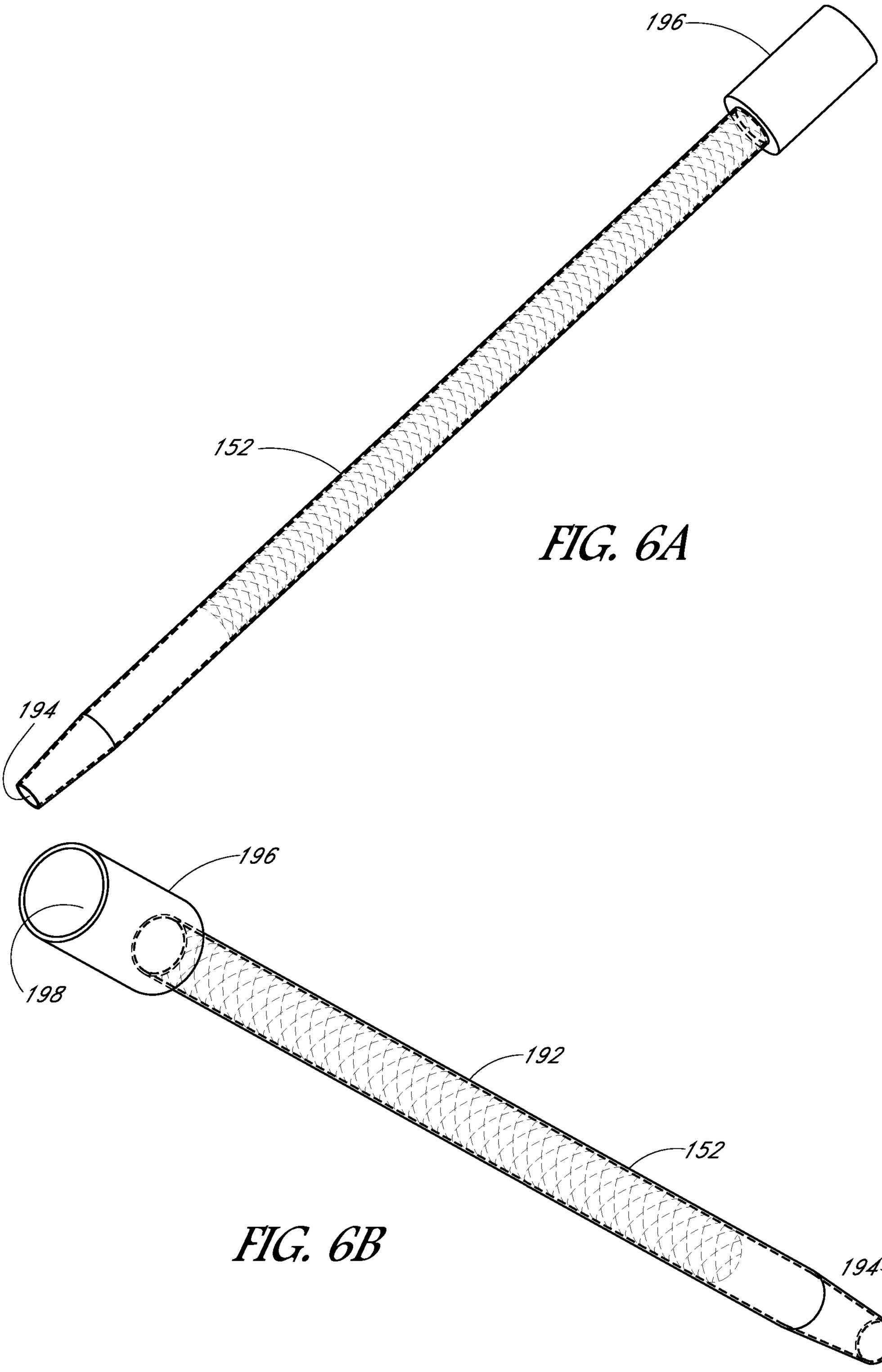


FIG. 6A

FIG. 6B

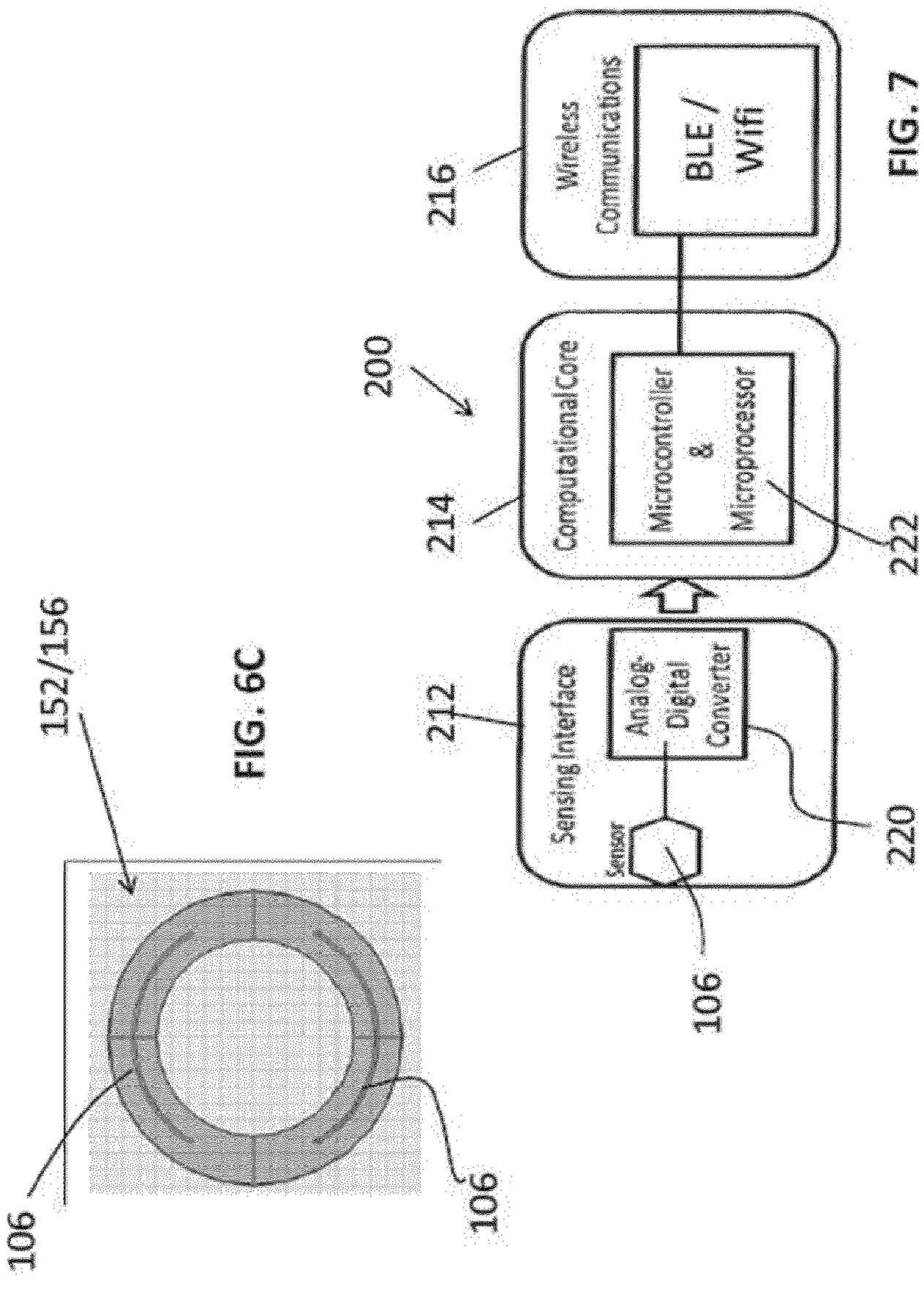

152/156
106
106
200
214
216
212
220
222
Computational Core
Microcontroller & Microprocessor
Wireless Communications
BLE / Wifi
Sensing Interface
Analog-Digital Converter
Sensor
106

FIG. 6C

FIG. 7

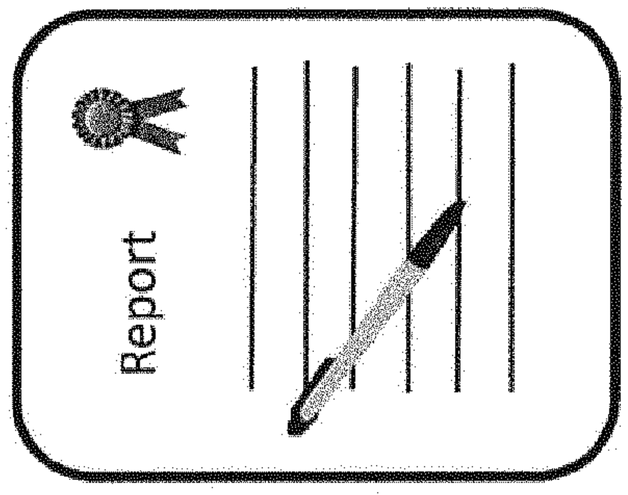


FIG. 8C

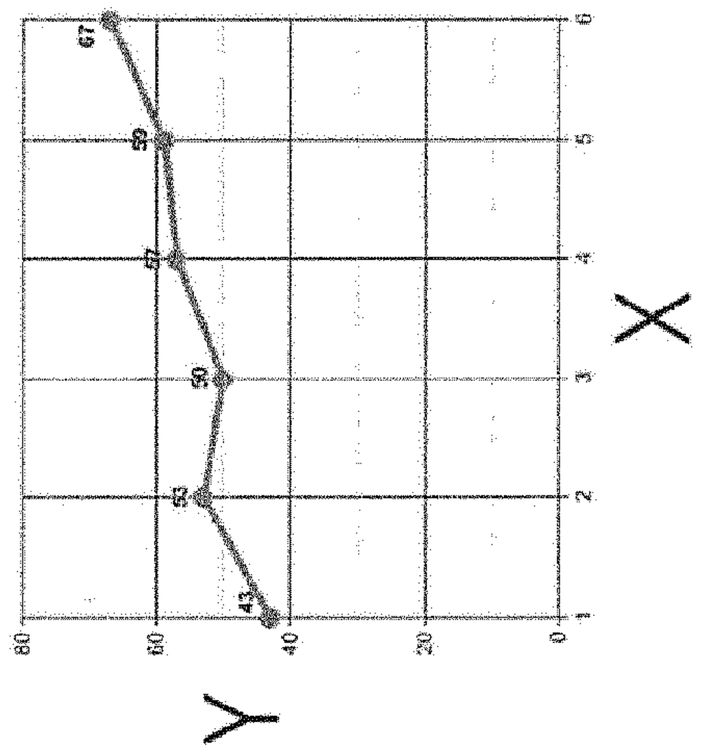


FIG. 8B

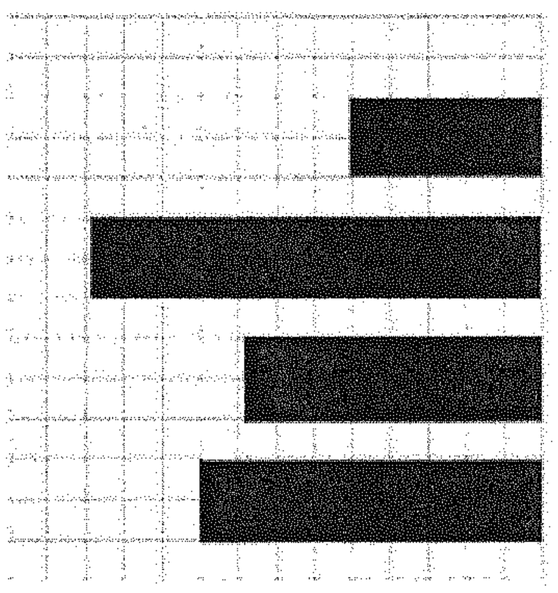


FIG. 8A

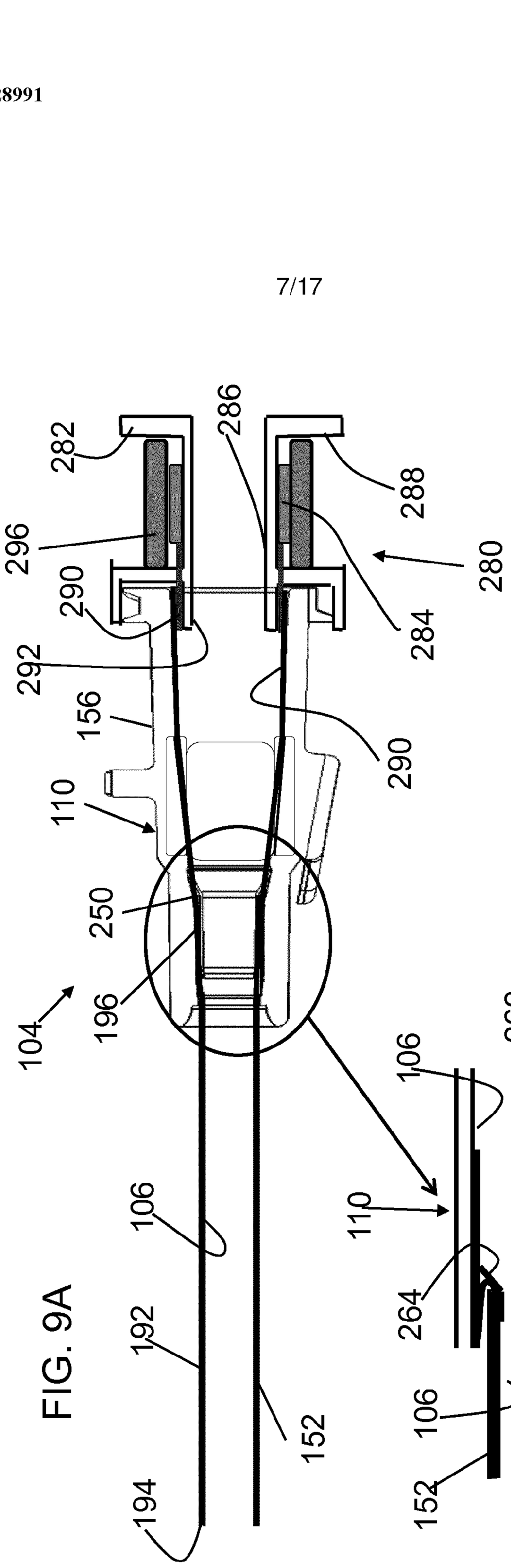

282
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152
106
272
194
152
270

FIG. 9A

FIG. 9B

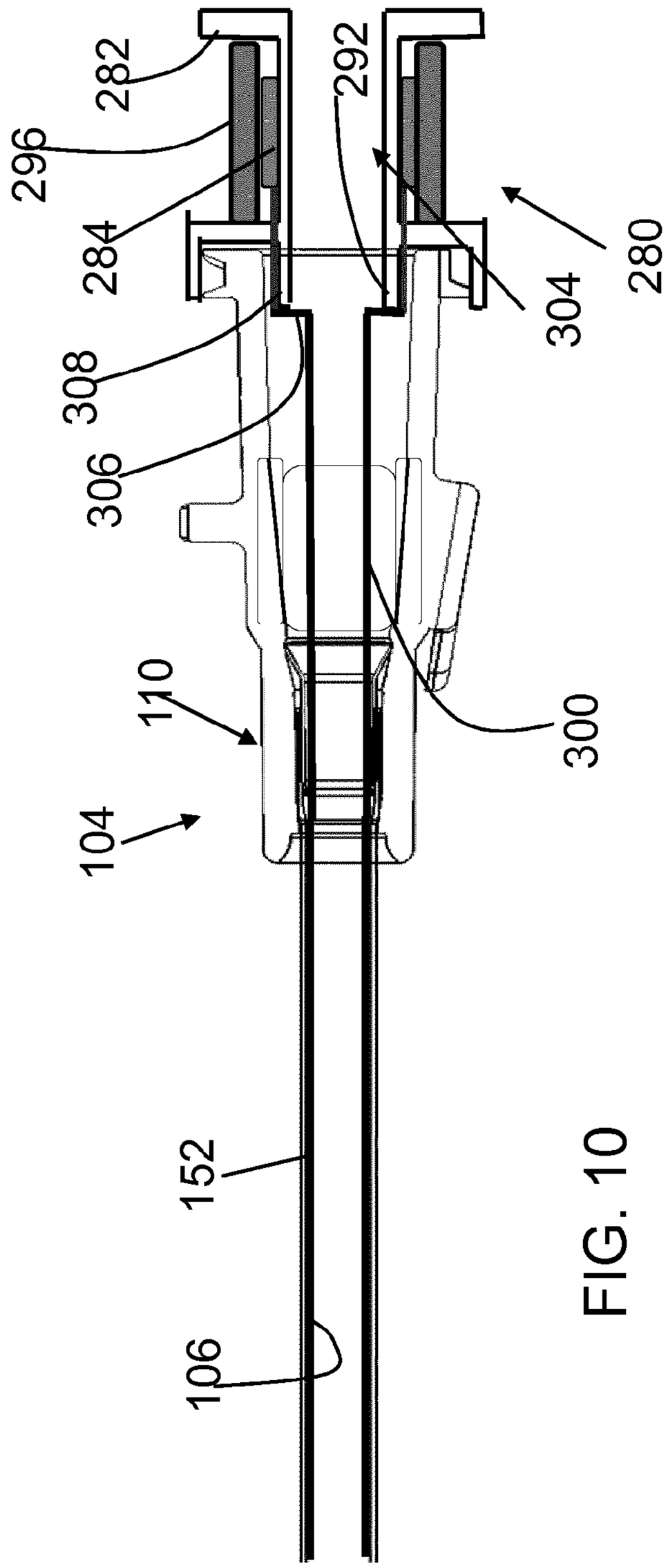


FIG. 1

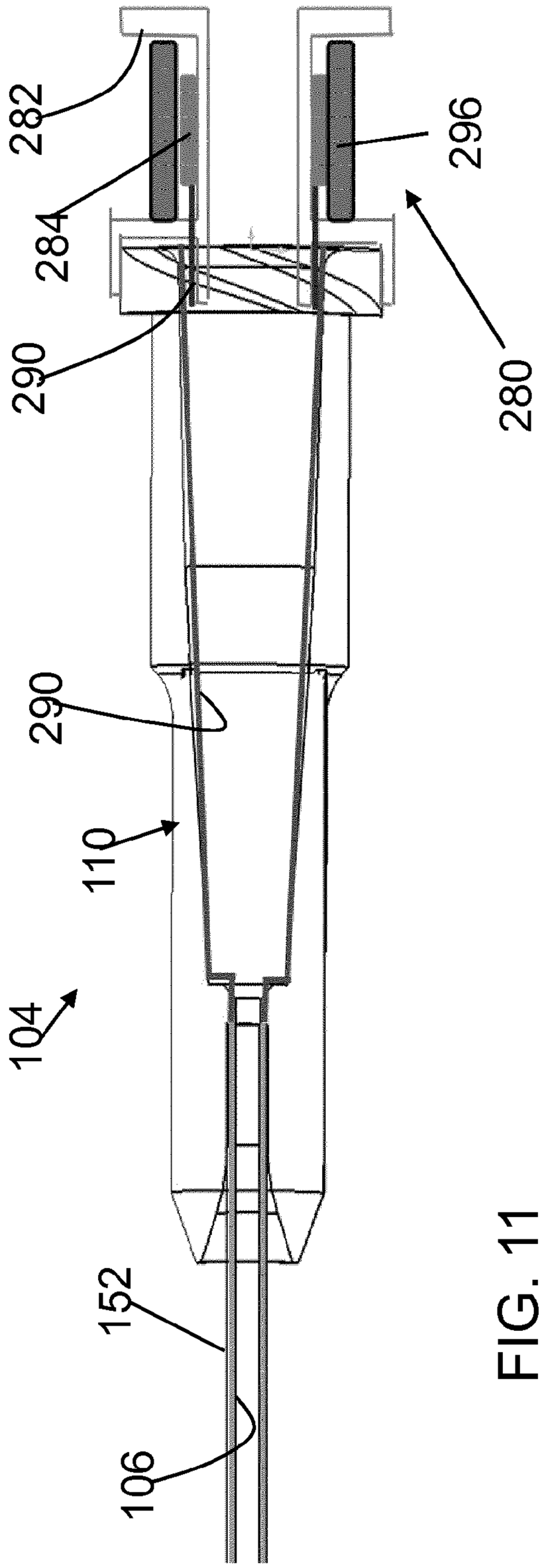


FIG. 11

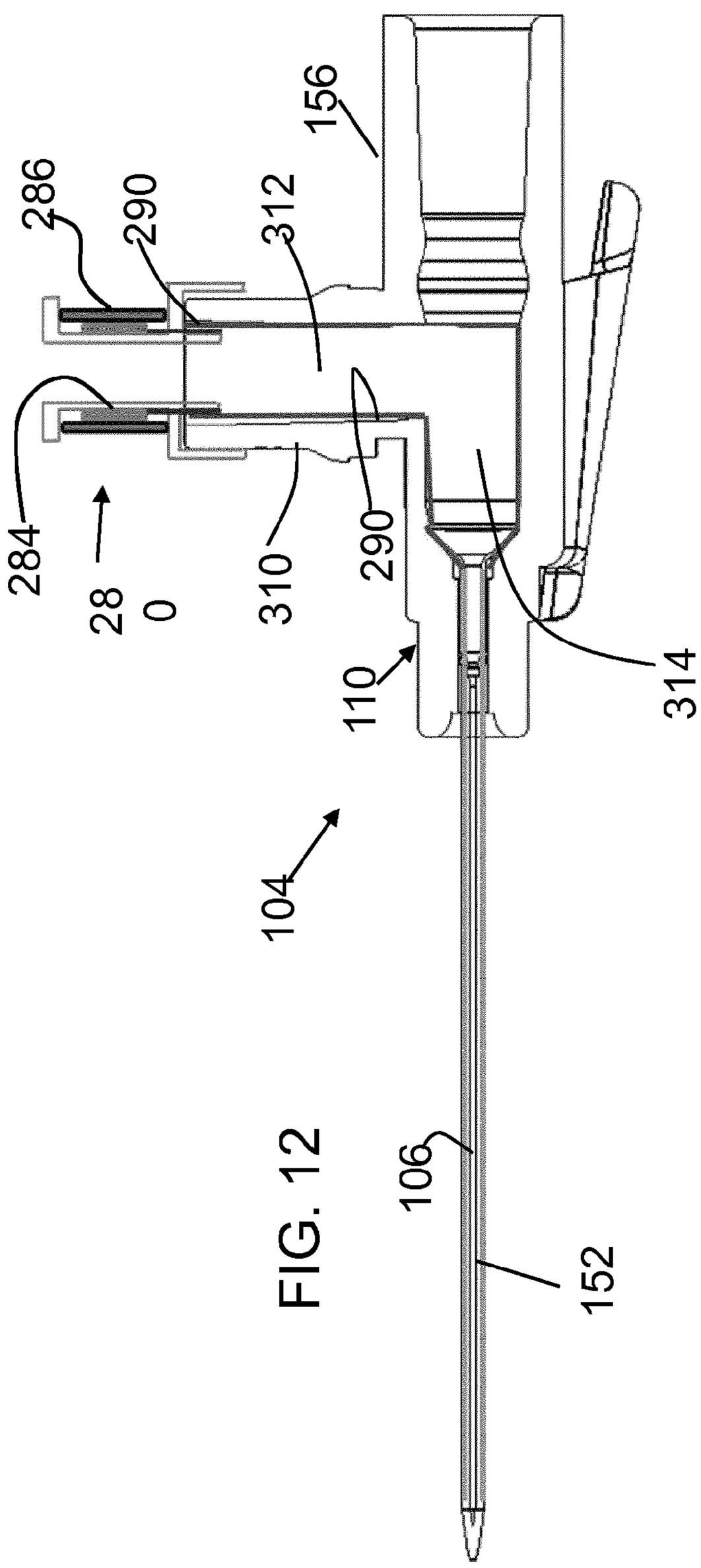


FIG. 12

Display Unit
328
Wireless Transmission Reception Module
CPU
Power Supply
Memory
Display Area
Detachable Luer Lock connector
326
Pulse width modulator
Wireless Transmission Module
Memory Buffer
Memory
CPU
Analog to digital converter
Rechargea ble battery
Recharging Connector
Universal Asynchronous Receiver-Transmitters
Connector
Capillary
322
Sensor
Connector
Catheter Hub
324
320

FIG. 13

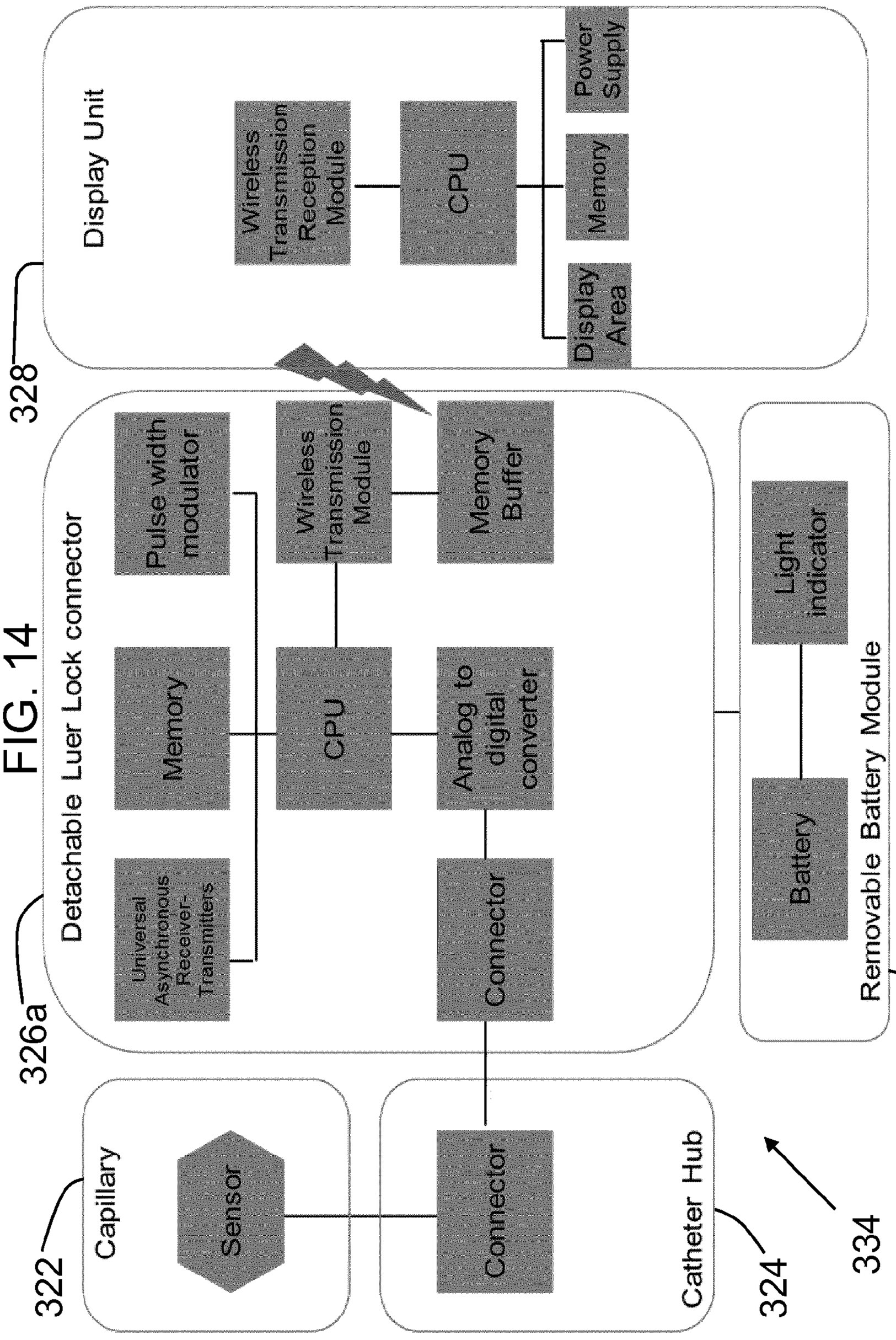

328
Display Unit
Wireless Transmission Reception Module
CPU
Power Supply
Memory
Display Area
326a
Detachable Luer Lock connector
Pulse width modulator
Wireless Transmission Module
Memory Buffer
Memory
CPU
Analog to digital converter
Universal Asynchronous Receiver-Transmitters
Connector
Light indicator
Battery
Removable Battery Module
326b
322
Capillary
Sensor
Connector
Catheter Hub
324
334

FIG. 14

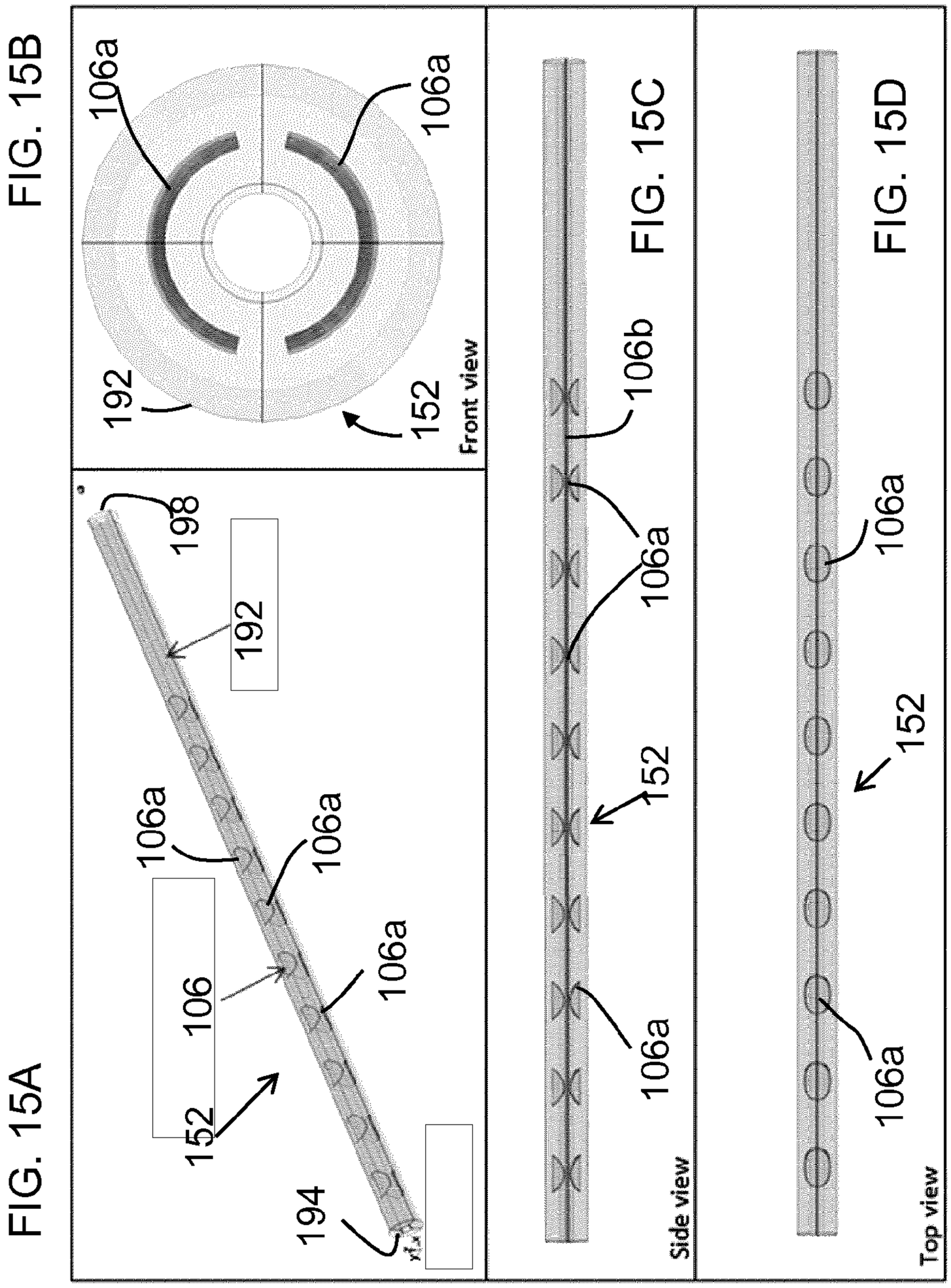


FIG. 15B FIG. 15C FIG. 15D FIG. 15A

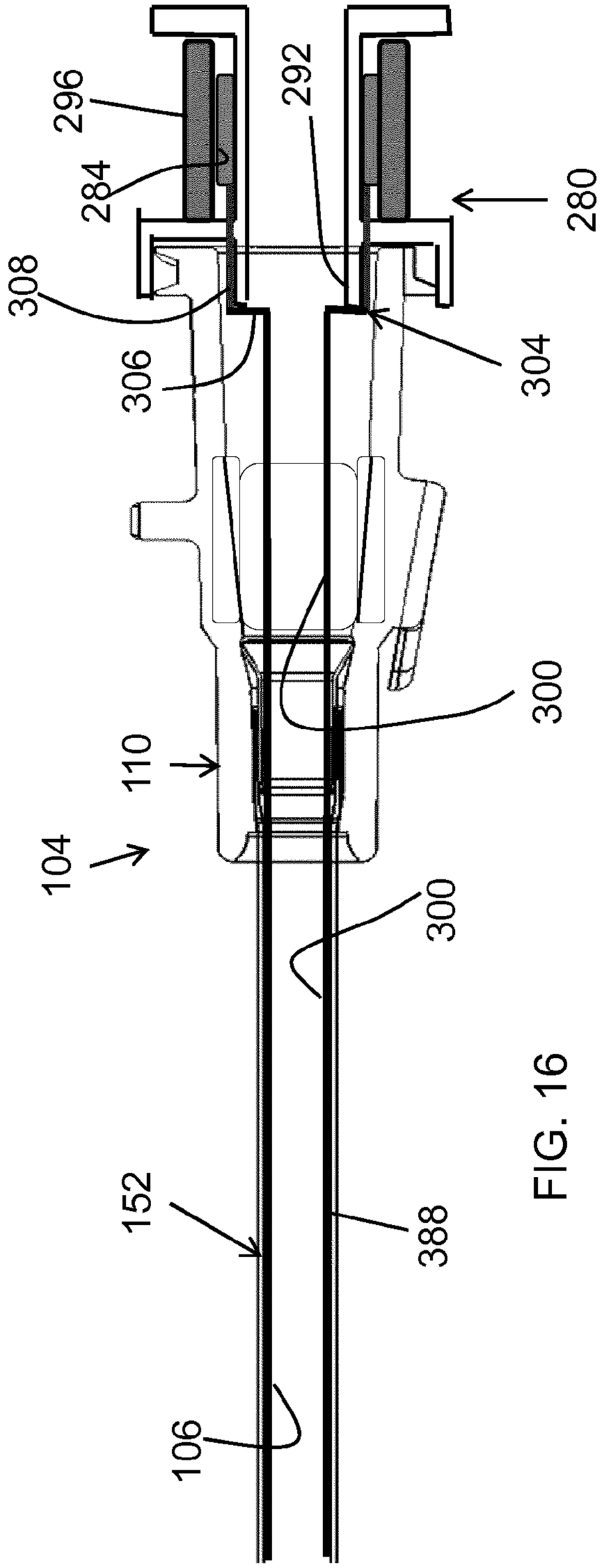


FIG. 16

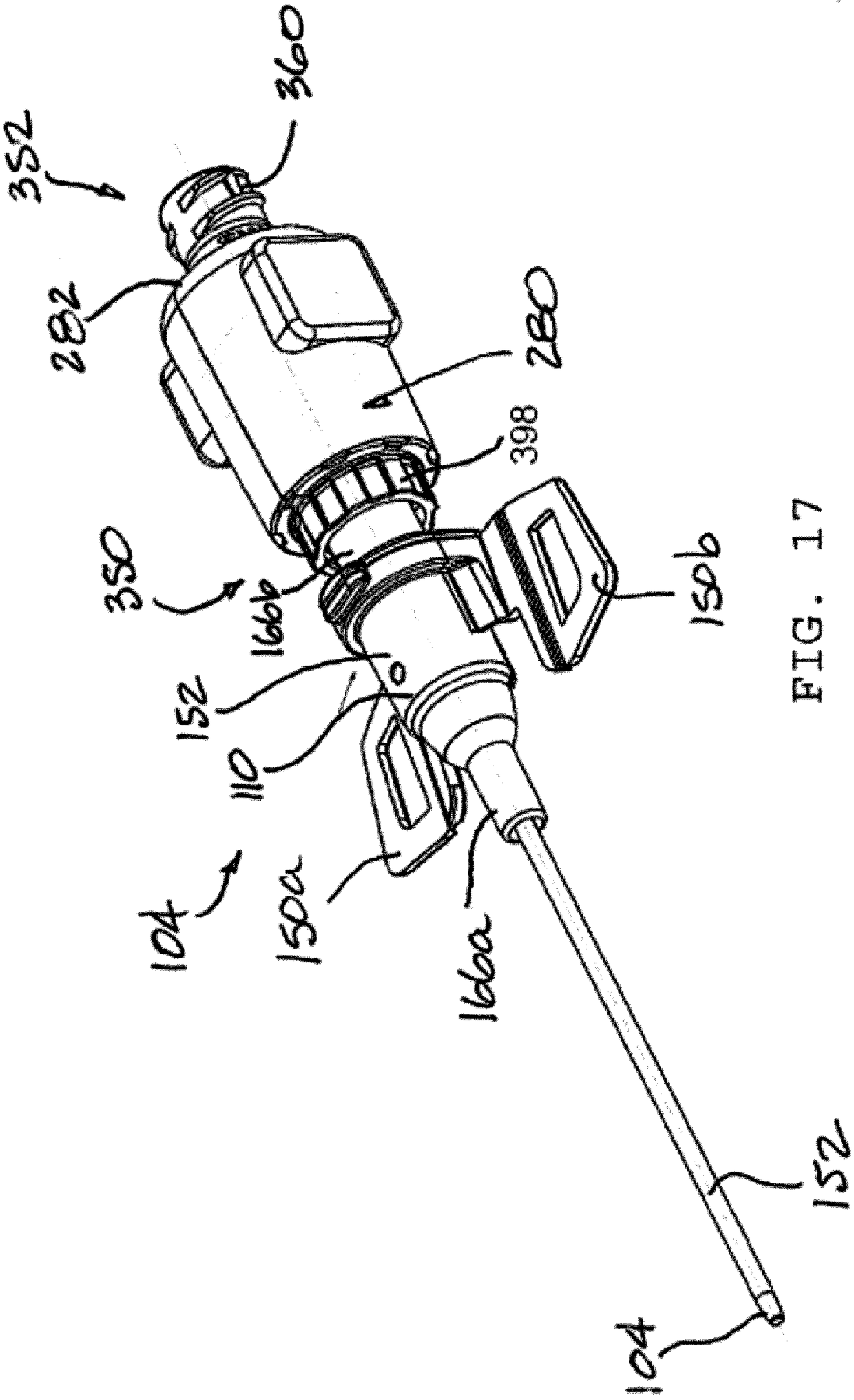


FIG. 17

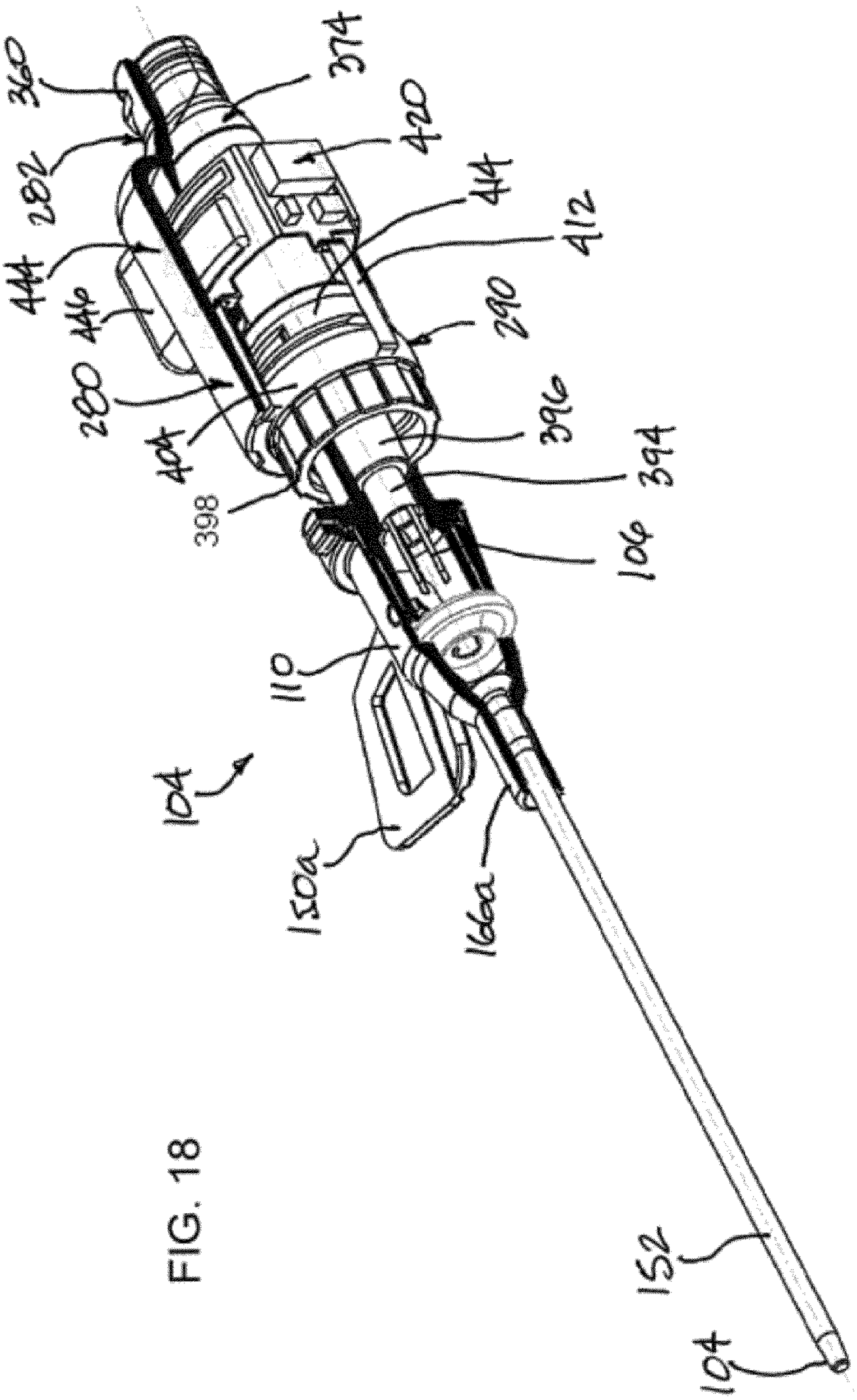

360
274
420
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102a
104a
104
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FIG. 18

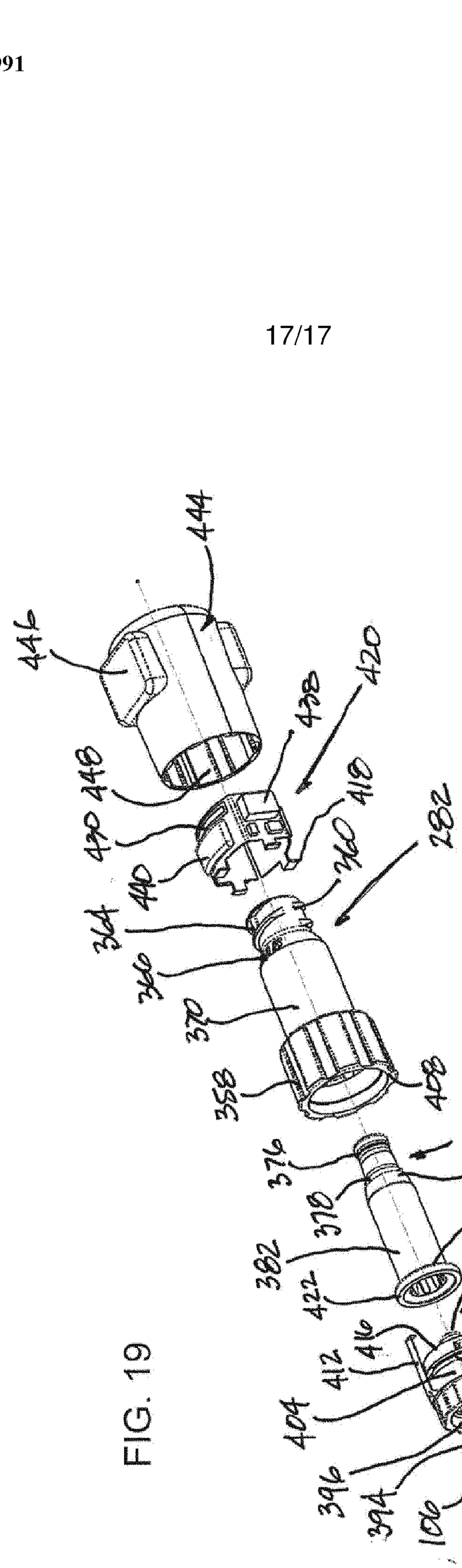

444
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448
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390

FIG. 19