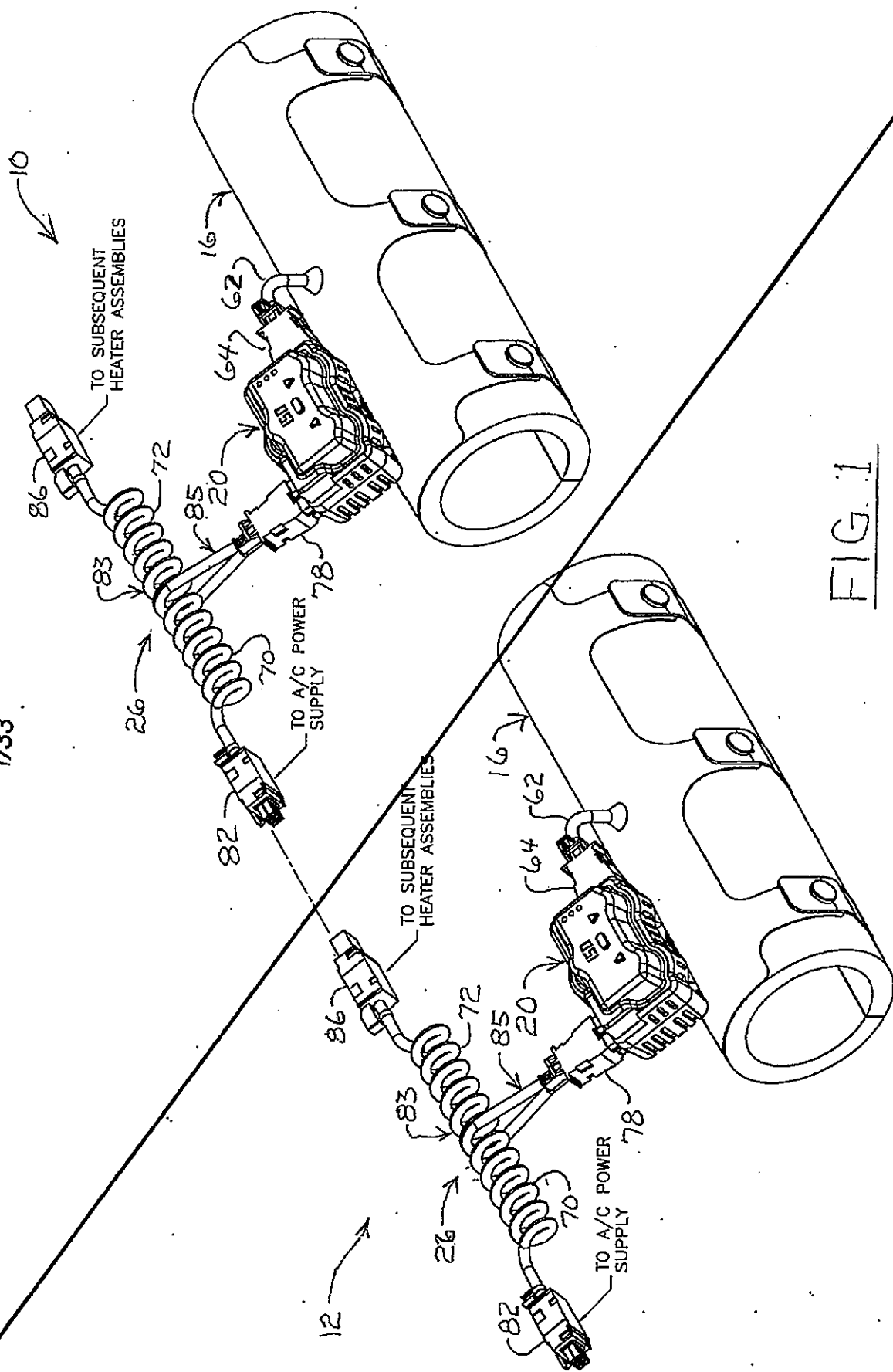
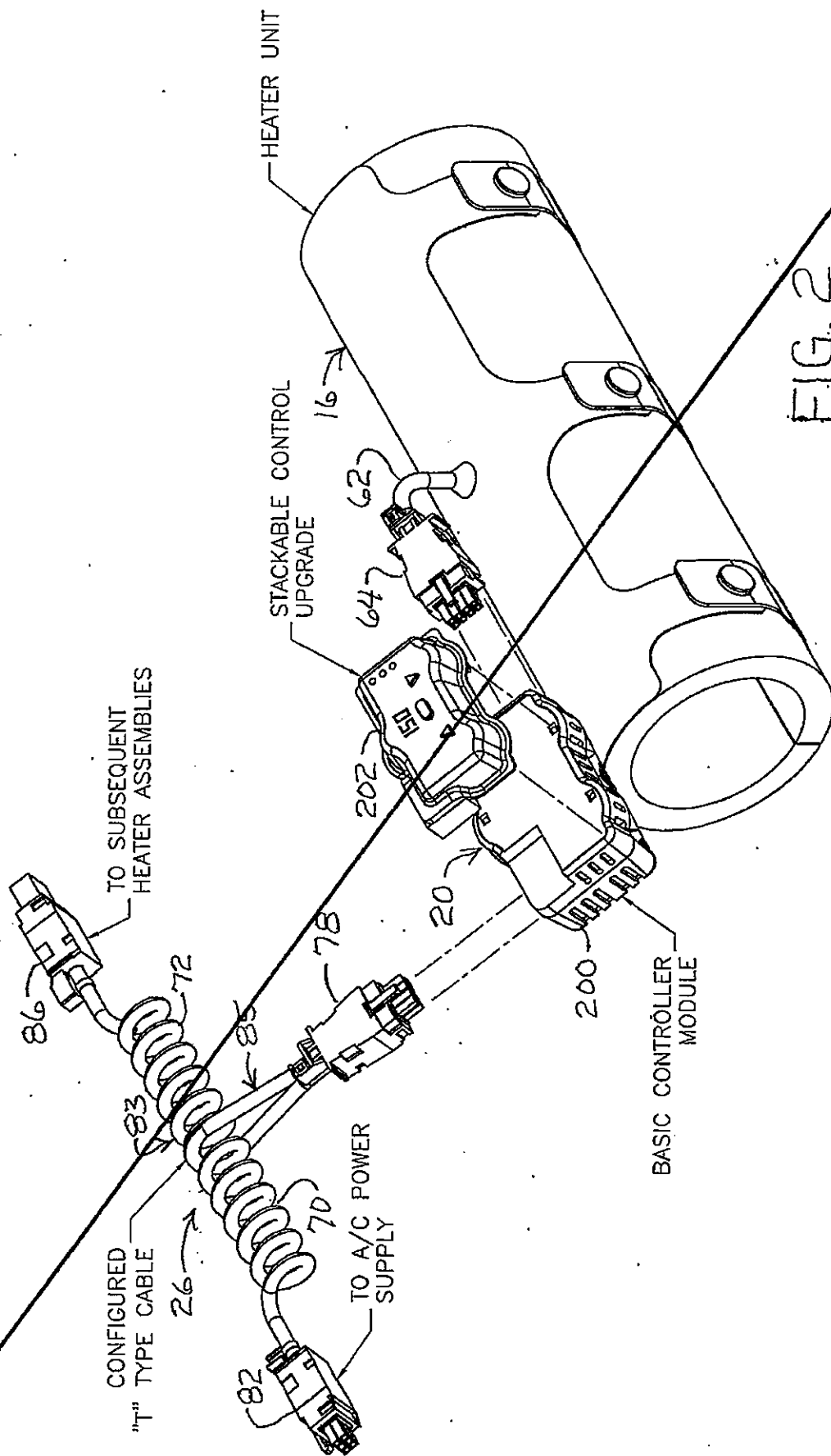


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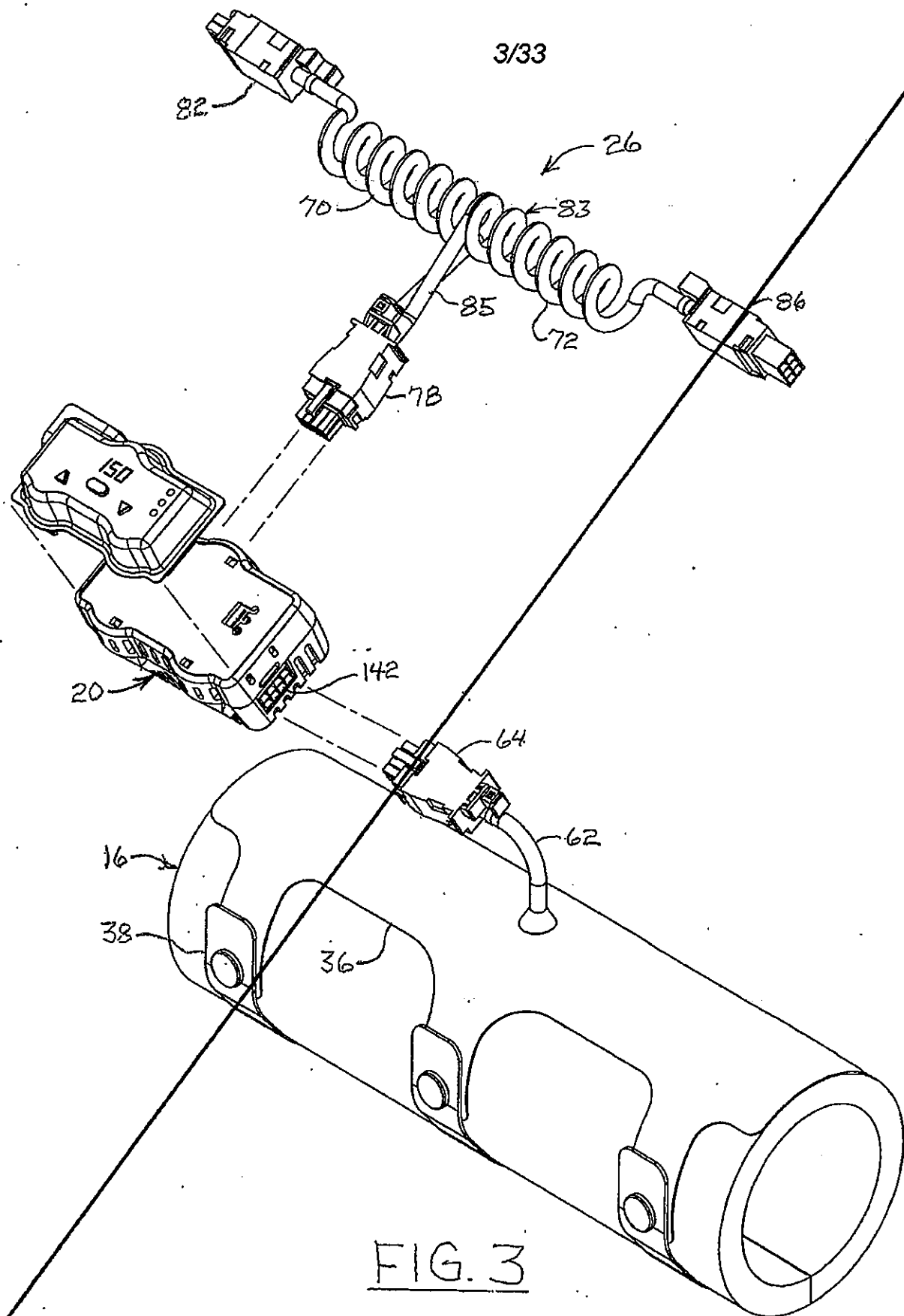
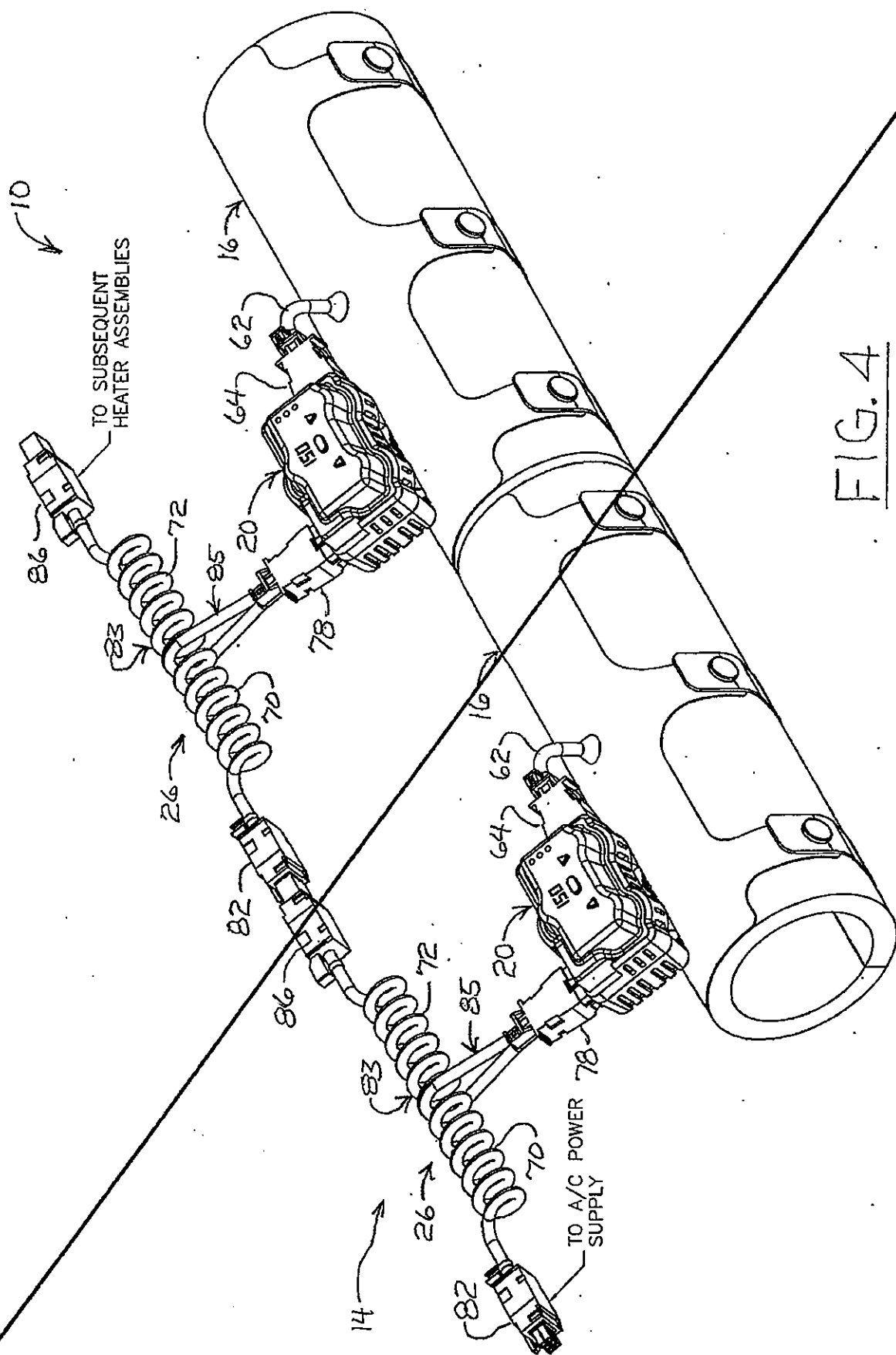


FIG. 3



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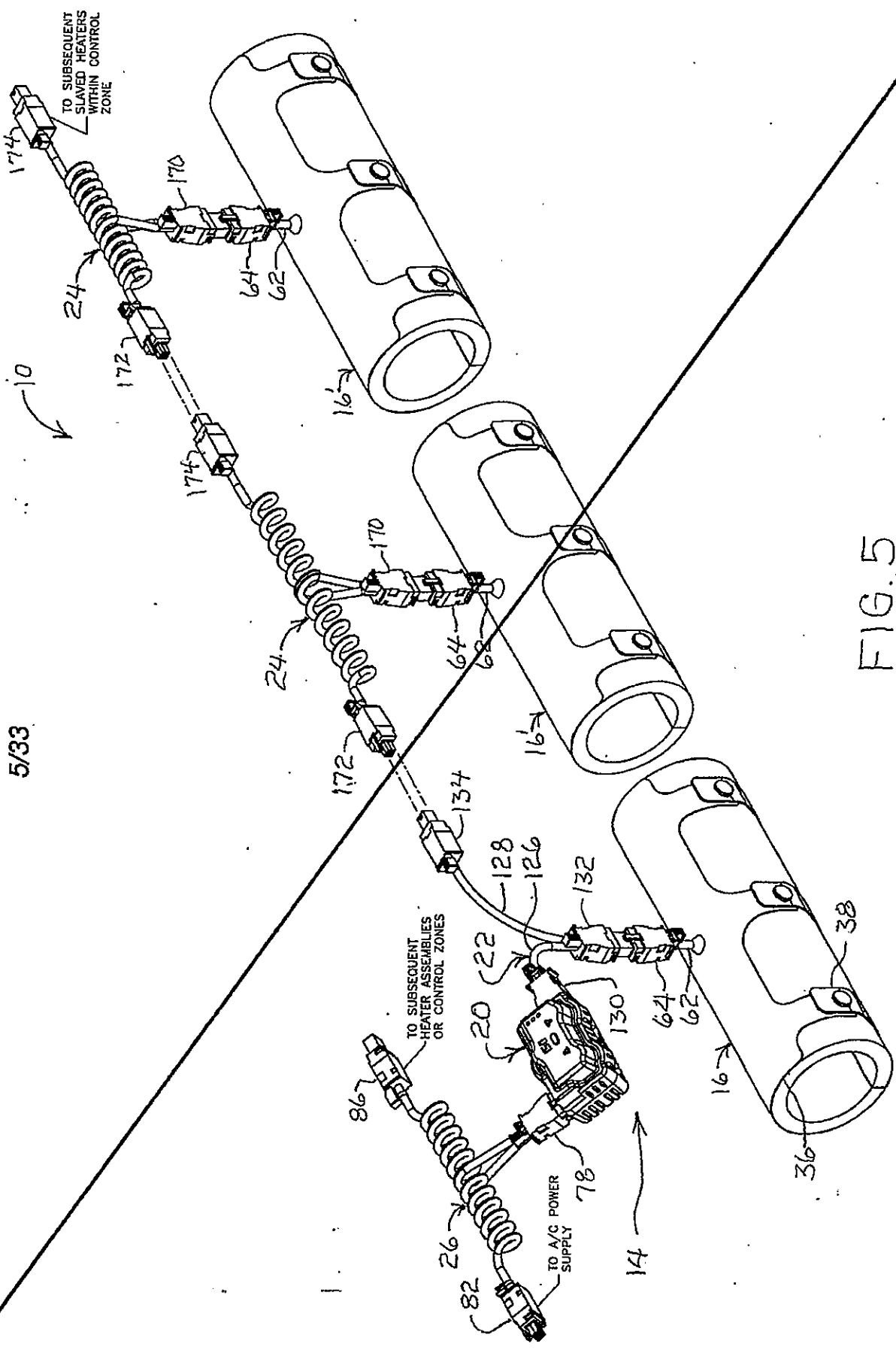


FIG. 5

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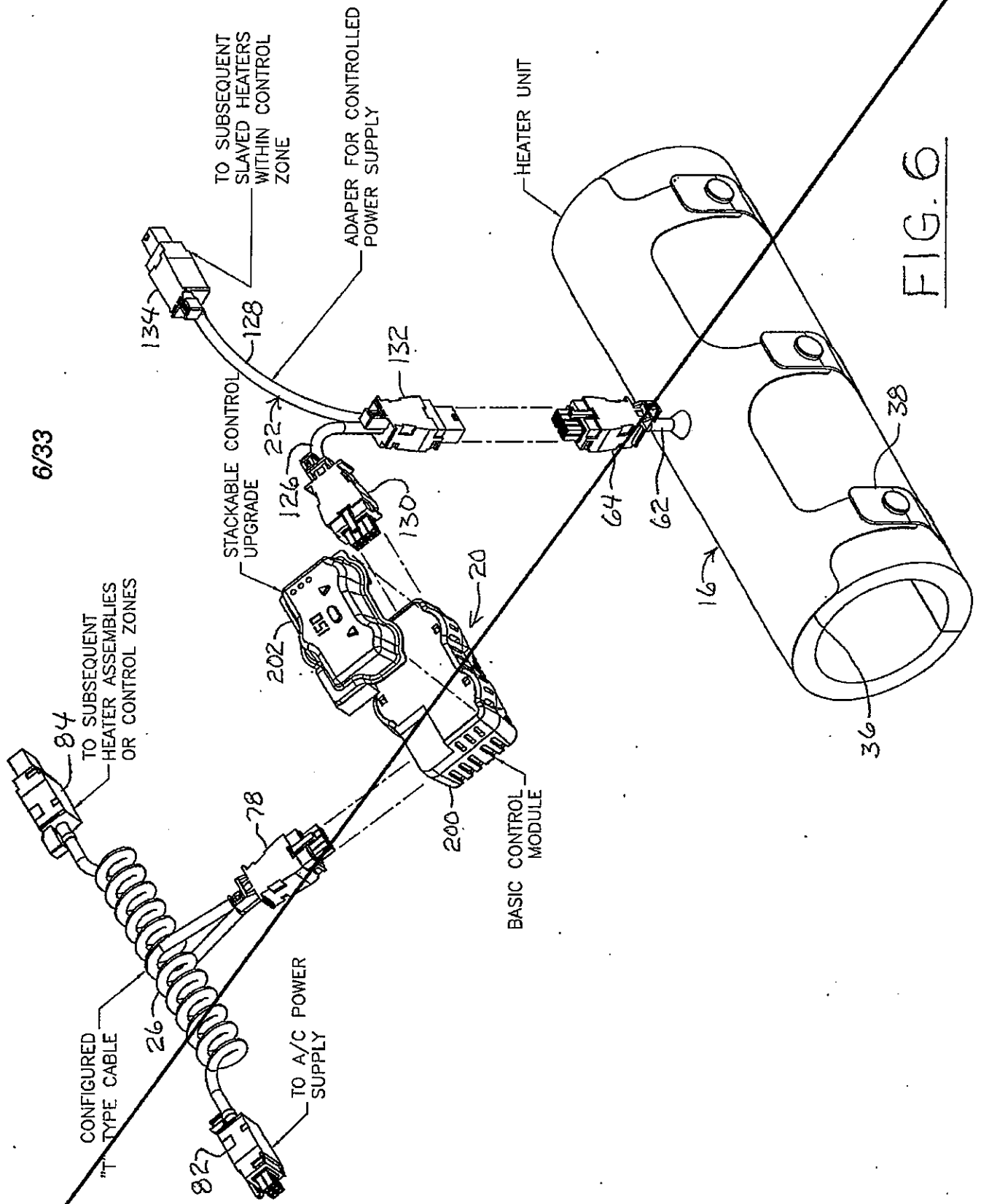
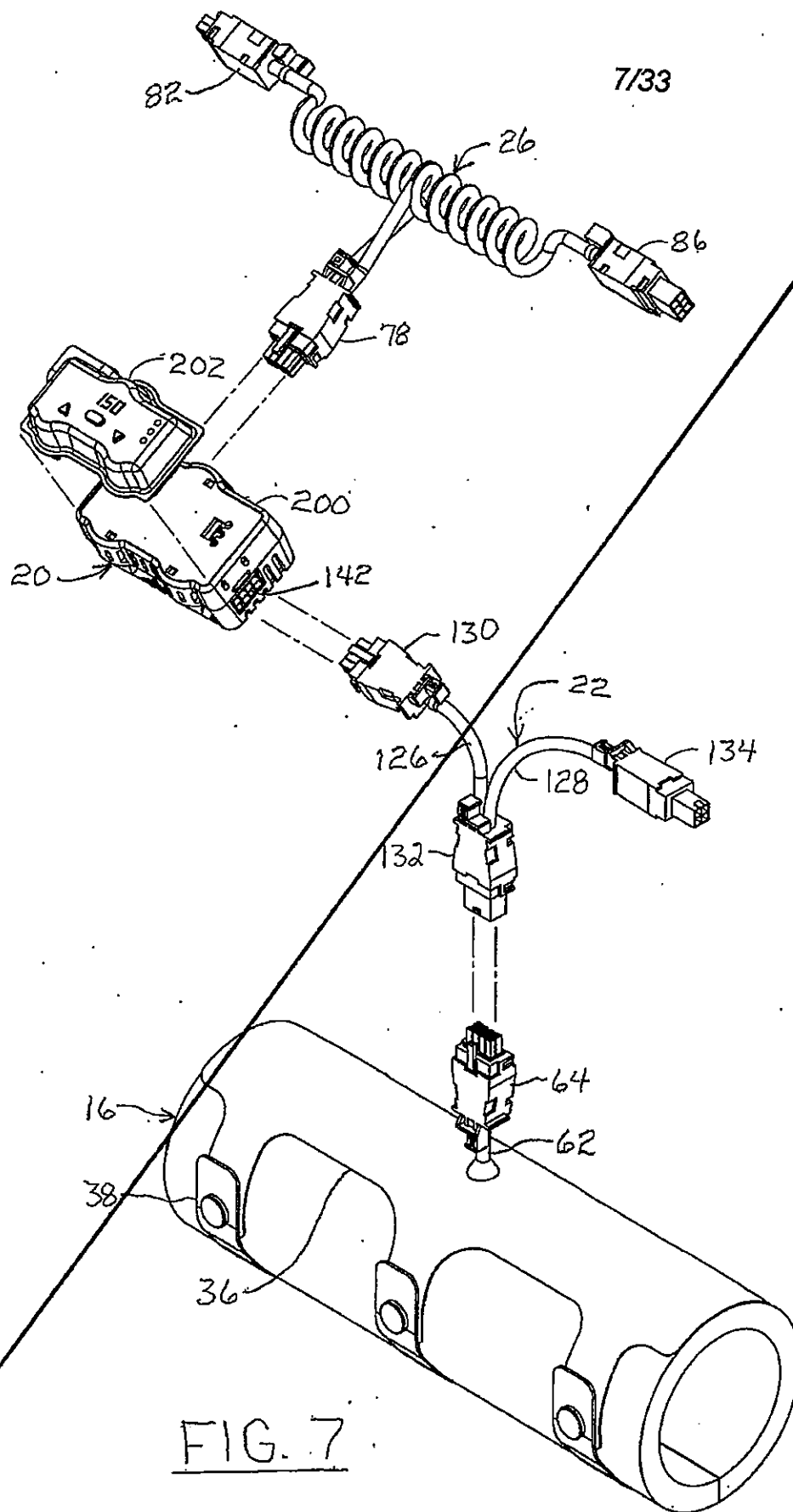
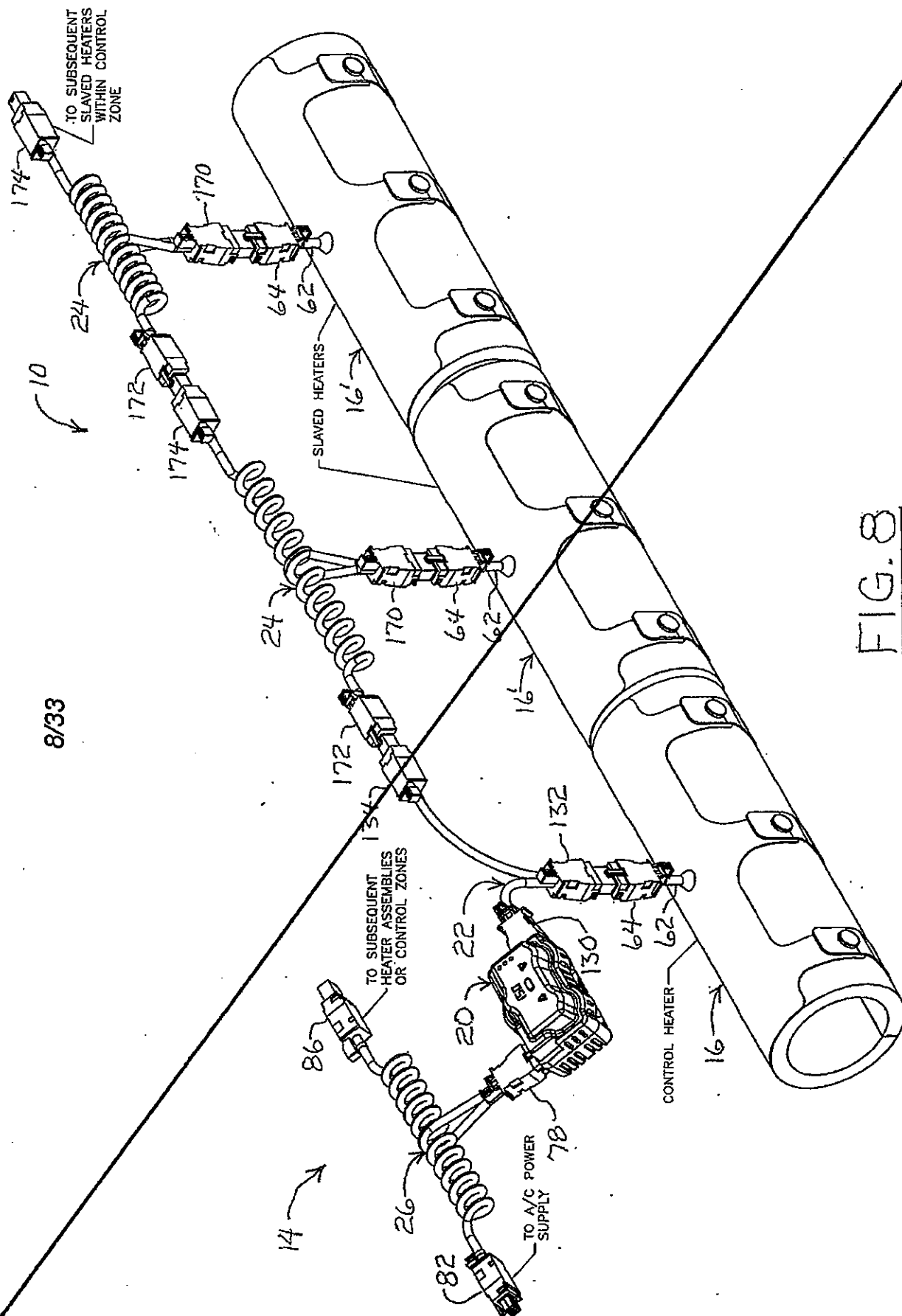


FIG. 6





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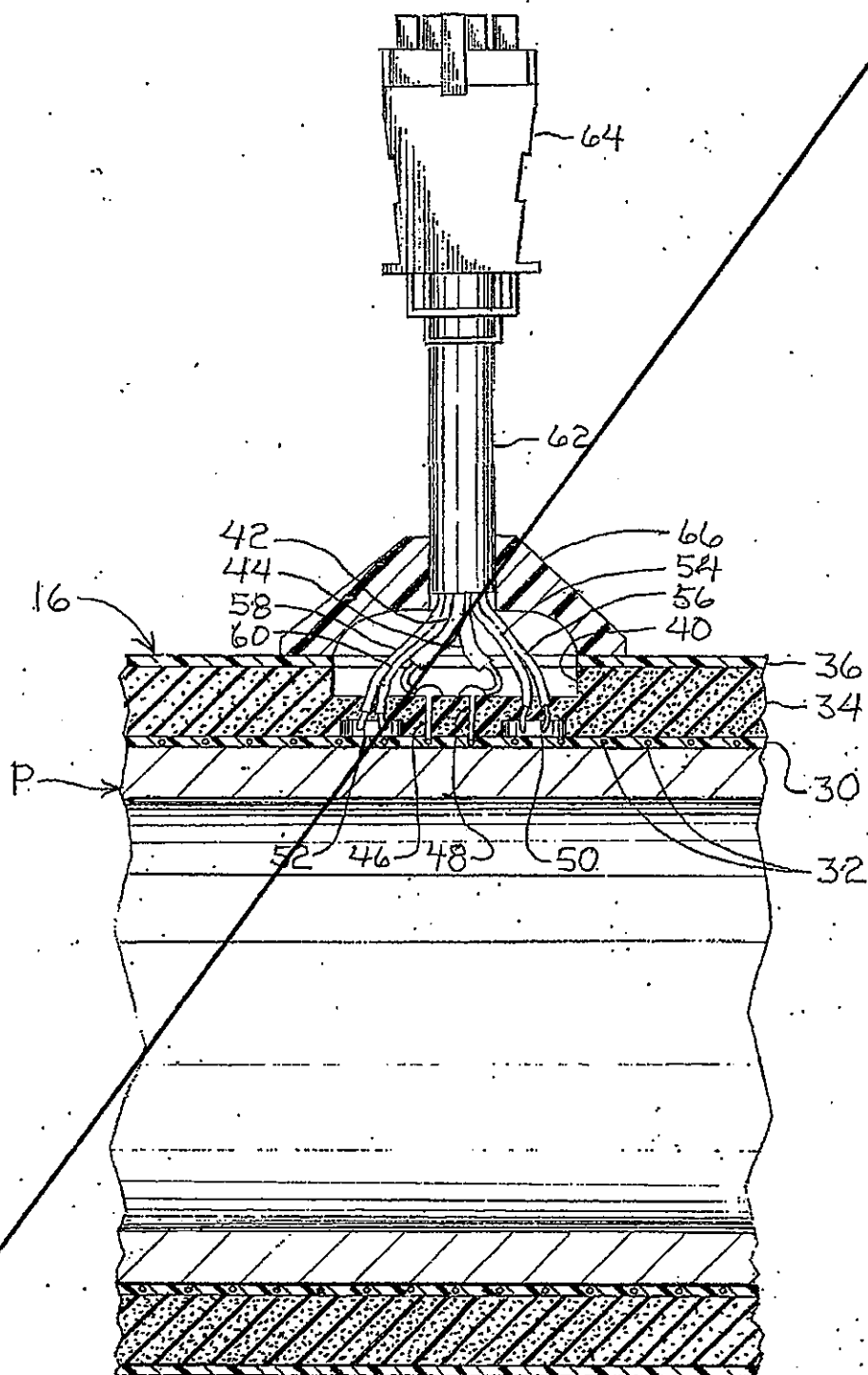


FIG. 9

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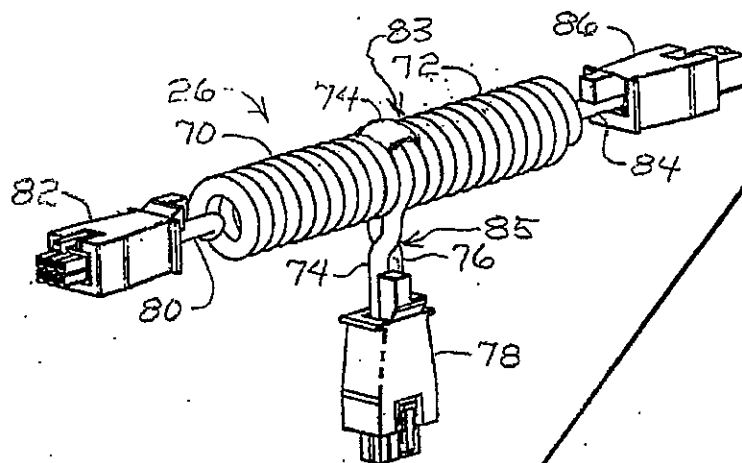


FIG. 10

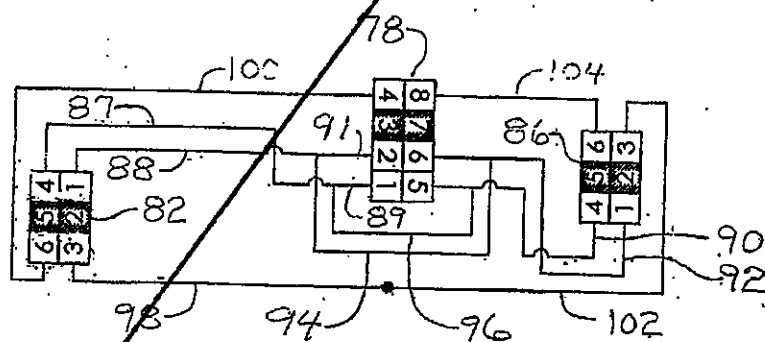


FIG. 11

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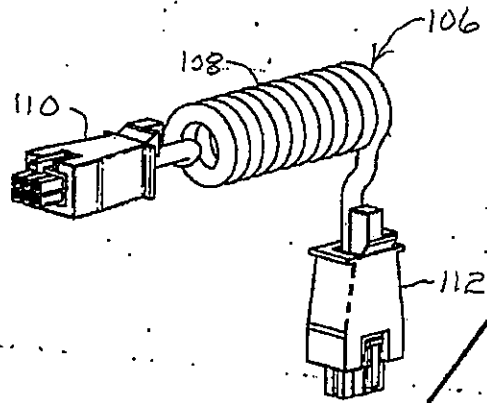


FIG. 12

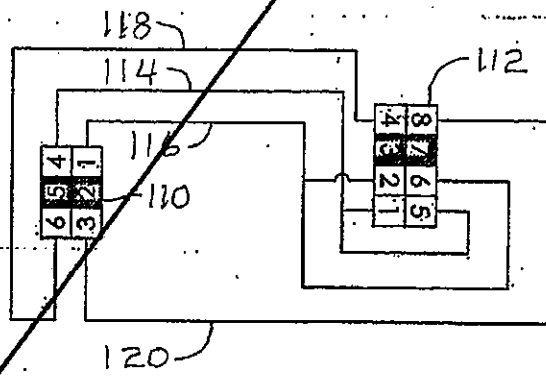
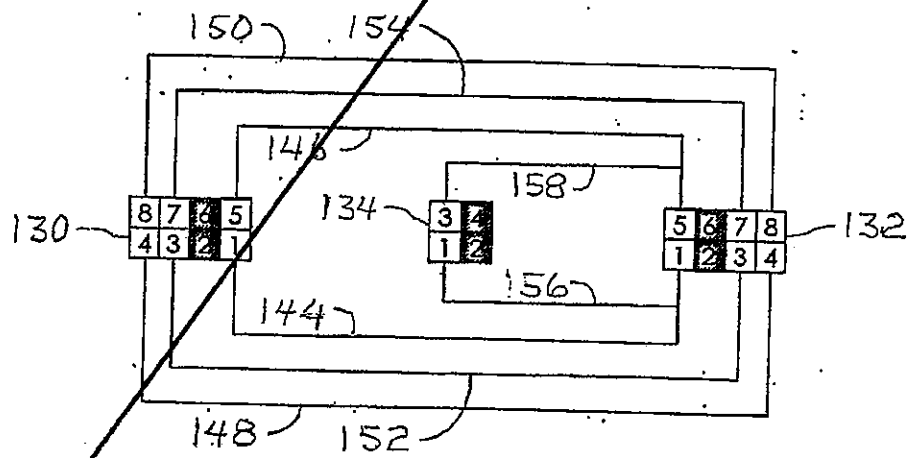
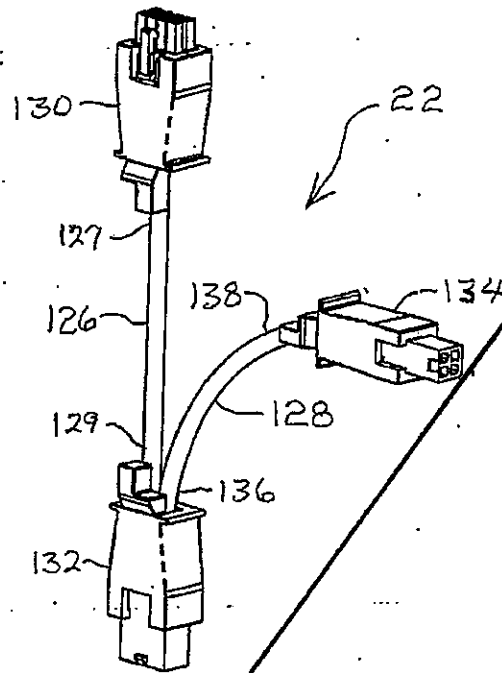


FIG. 13

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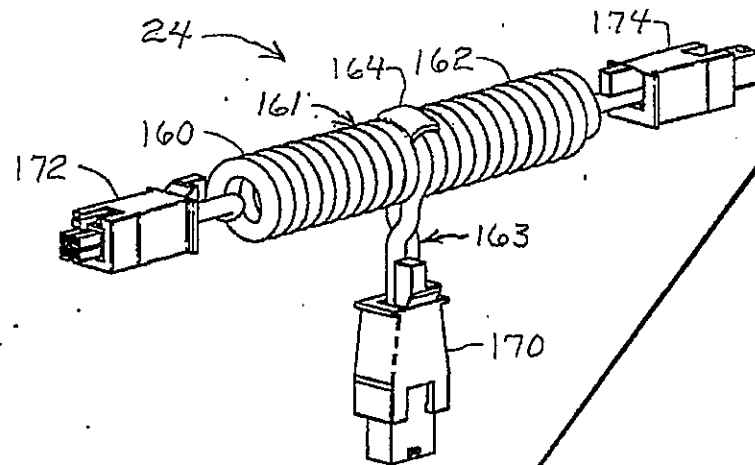


FIG. 16

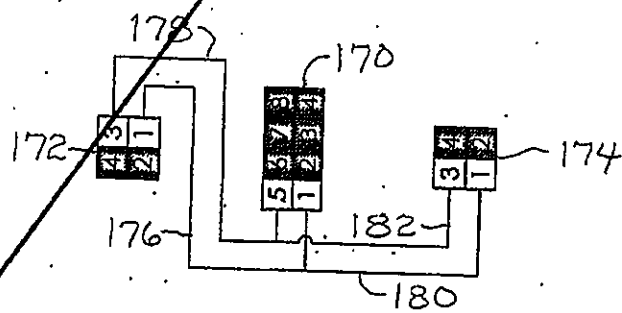


FIG. 17

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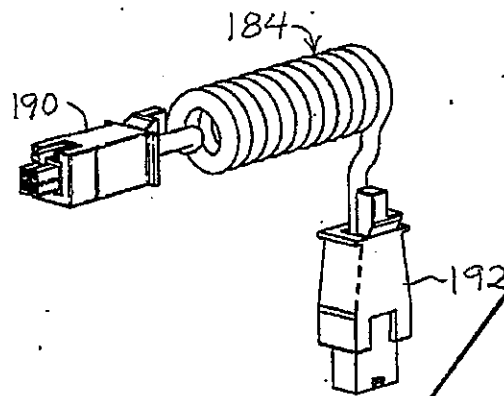


FIG. 18

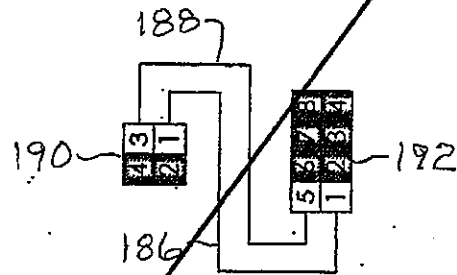


FIG. 19

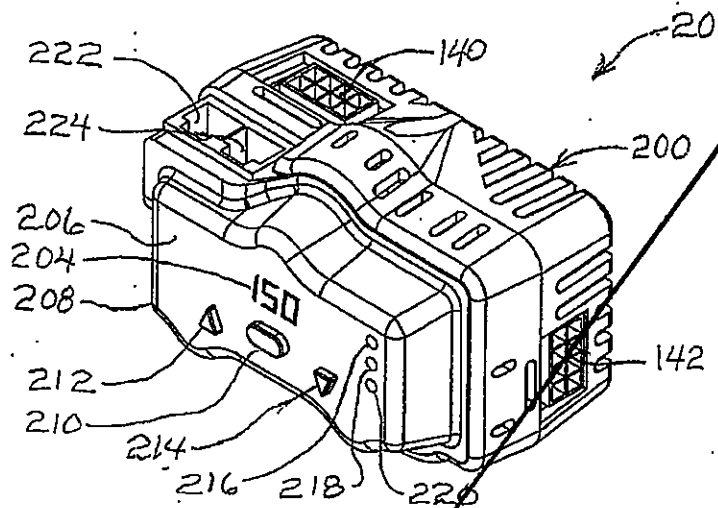


FIG. 20

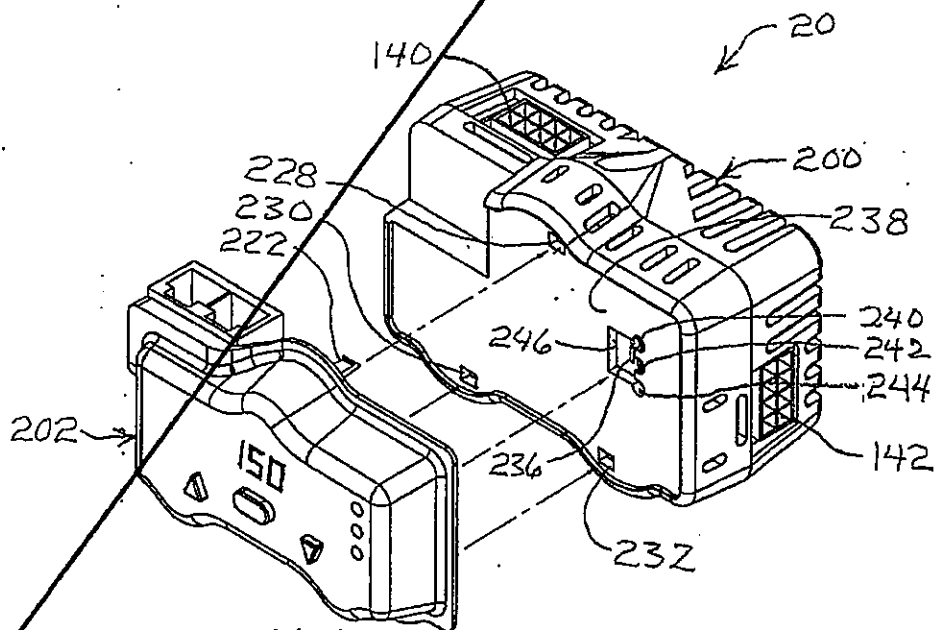
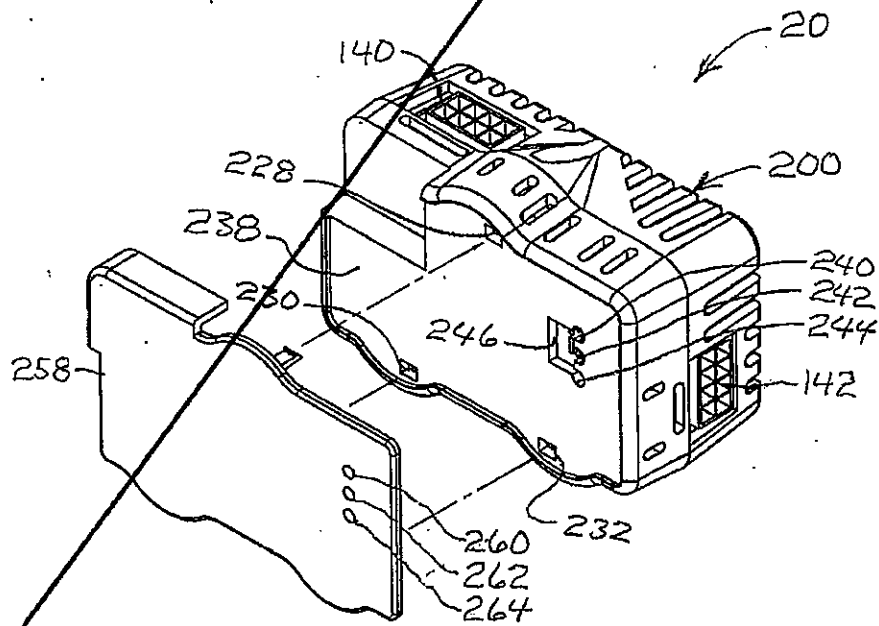
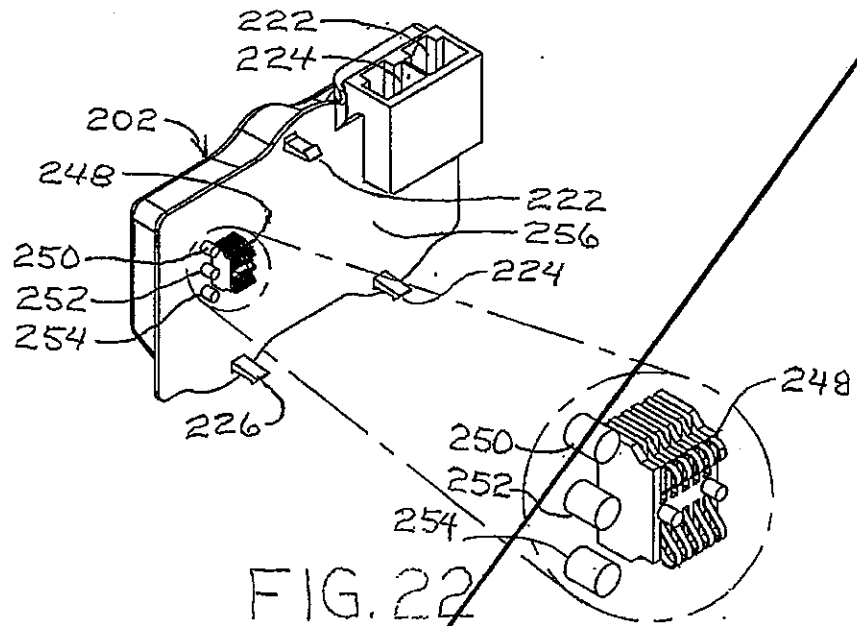


FIG. 21

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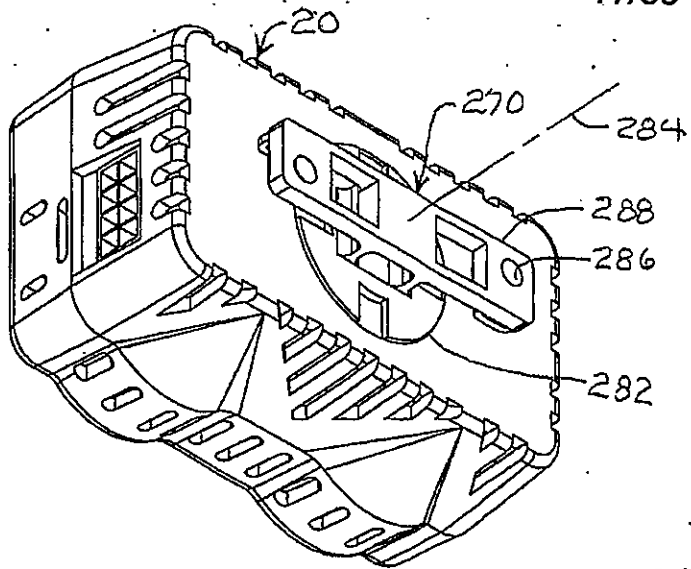


FIG. 24

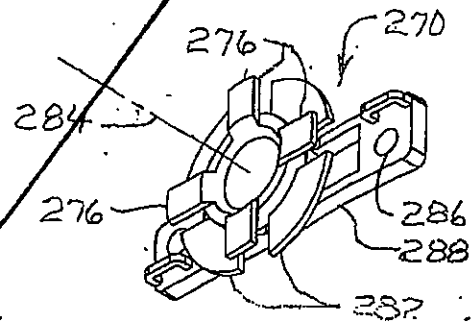


FIG. 26

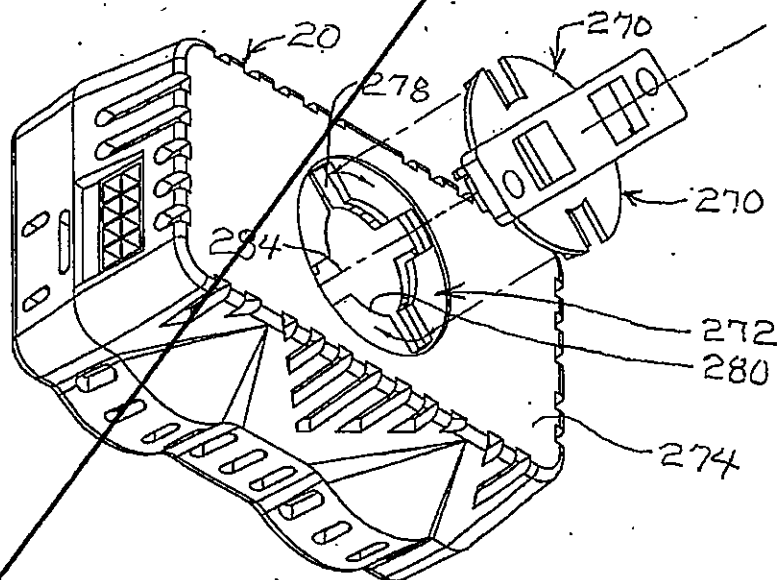


FIG. 25

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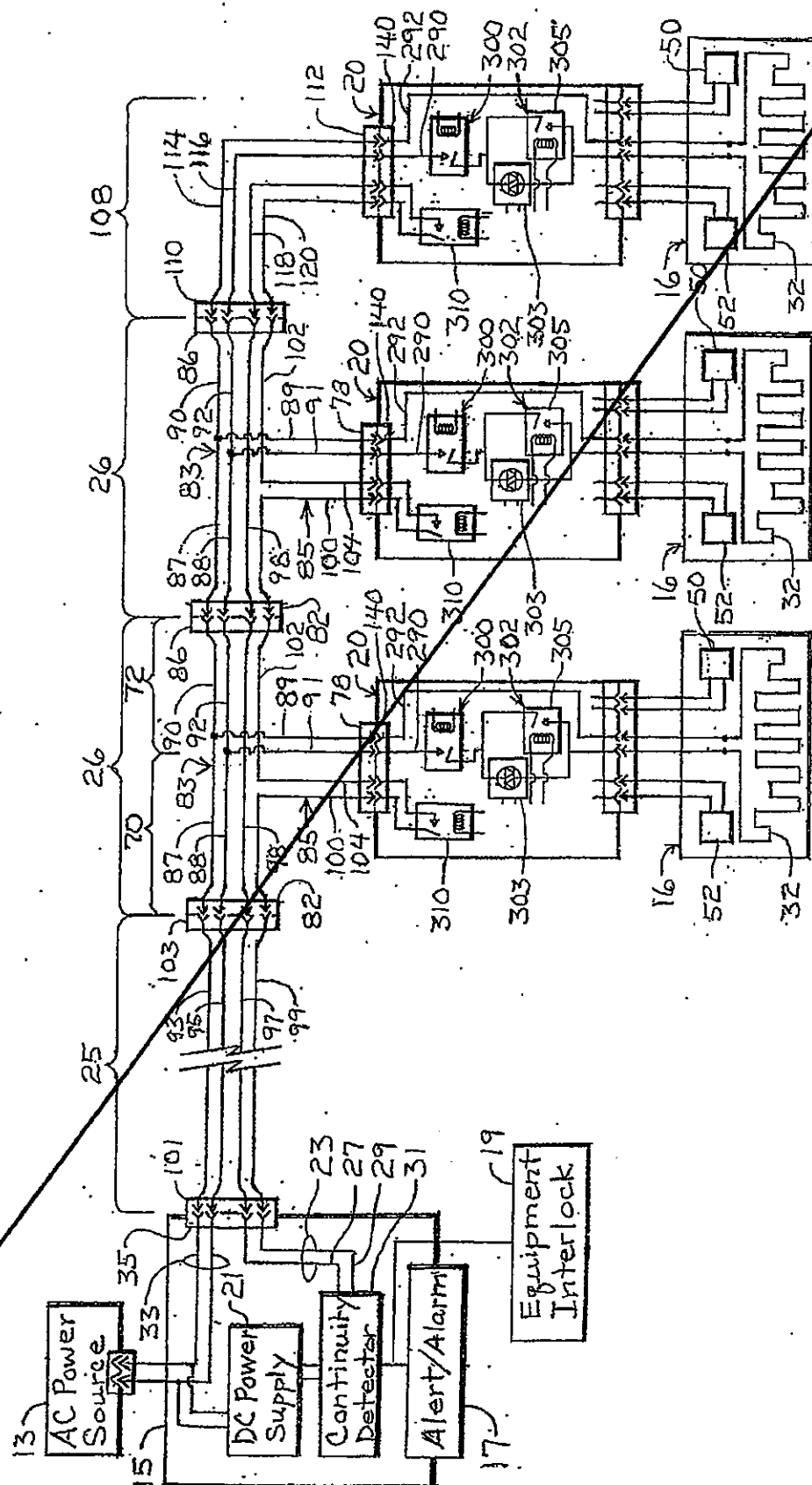
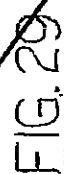


FIG. 27

FIG. 1 is a block diagram of a pipe heater assembly 10. The assembly includes a tee power cable assembly 13, which provides power to a heater controller module 200. The module 200 contains a process control 296, a high-limit control 298, a D/C power supply 300, a temp range relay 310, and a display 306. The module is connected to three pipe heaters 32, each with a heater element 32 and a temp sensor 50. The diagram shows various electrical connections and components like a communications macro processor 318 and a digital comms I/O 316.

FIG. 28



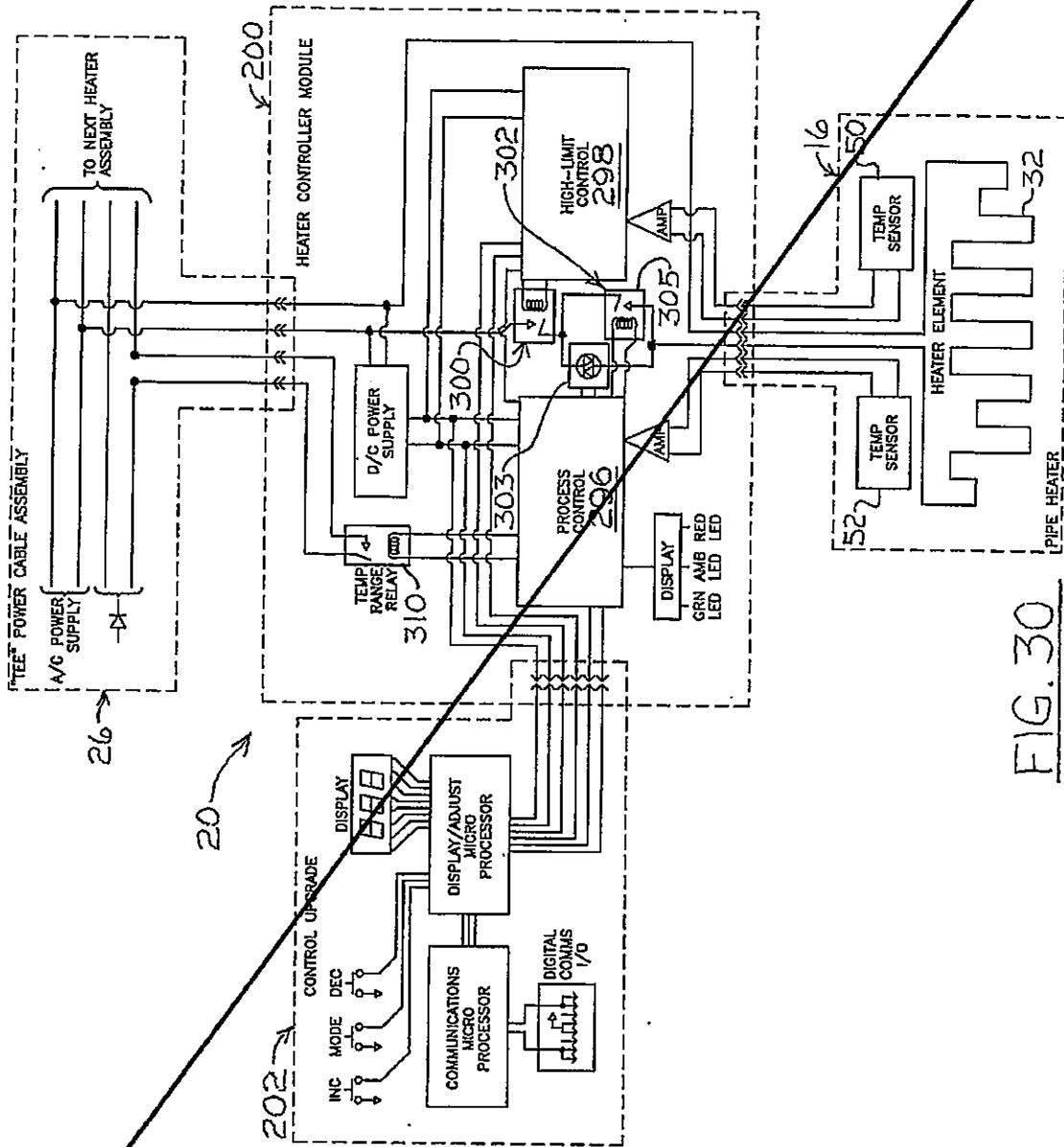


FIG. 30

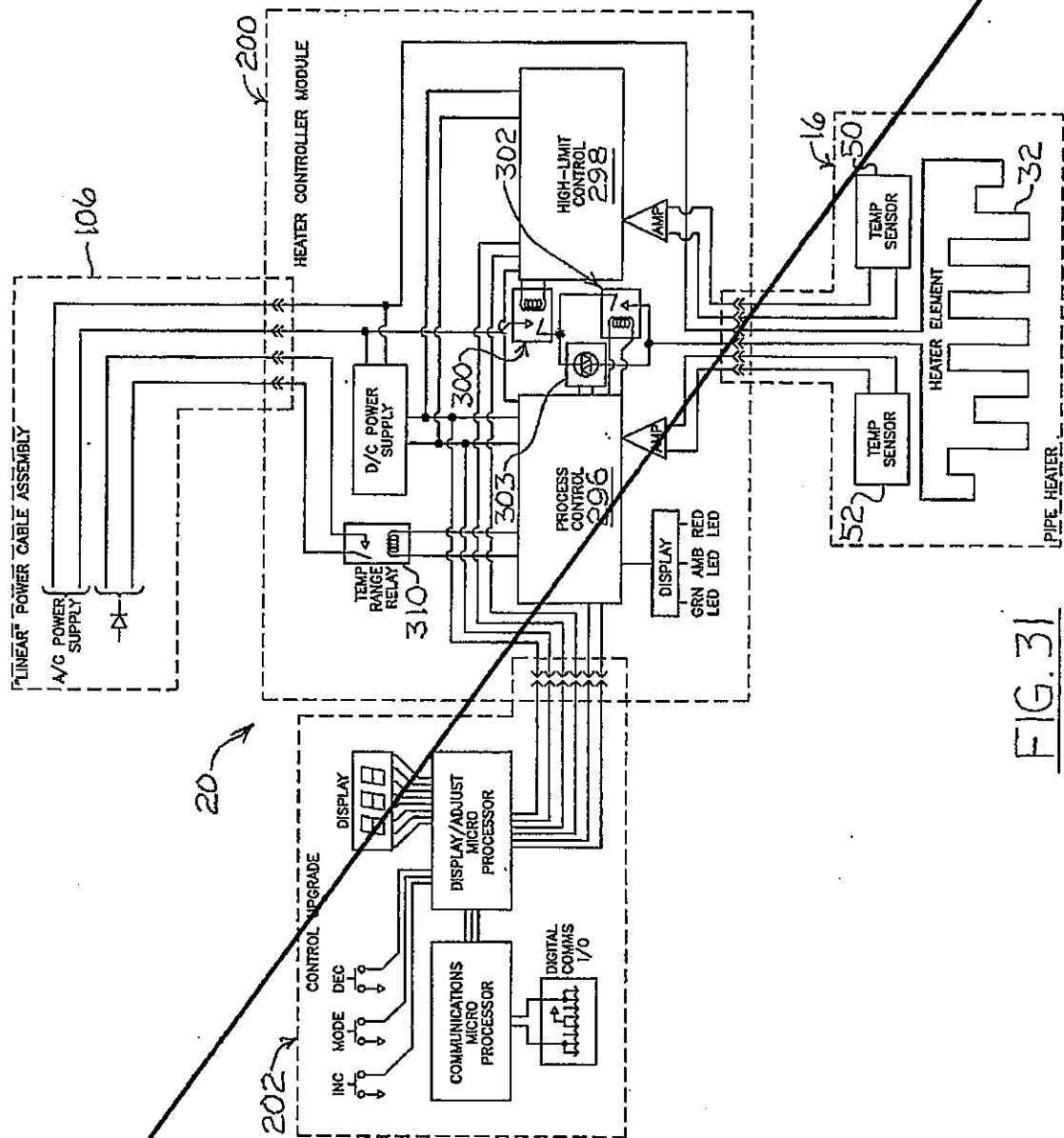


FIG. 31

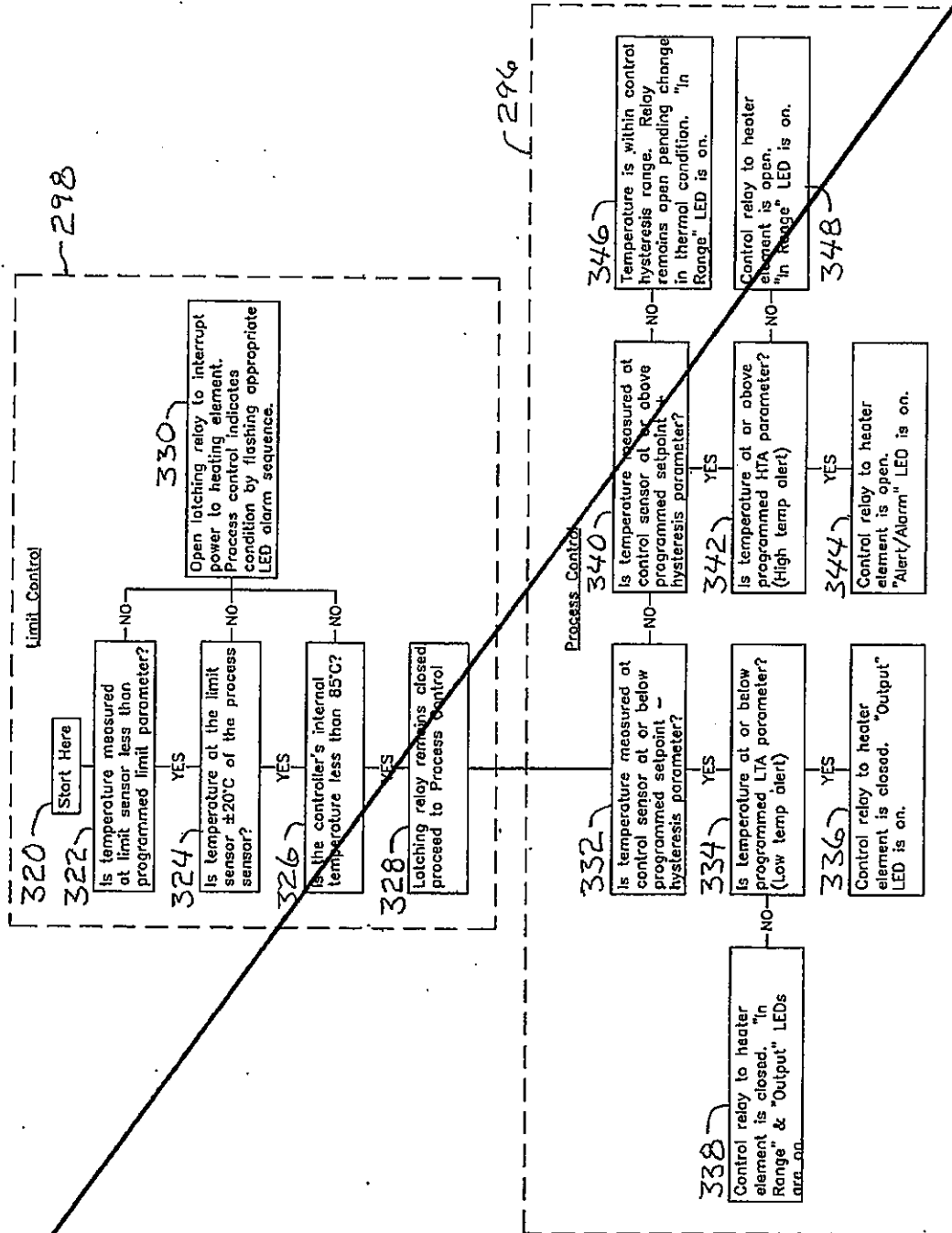
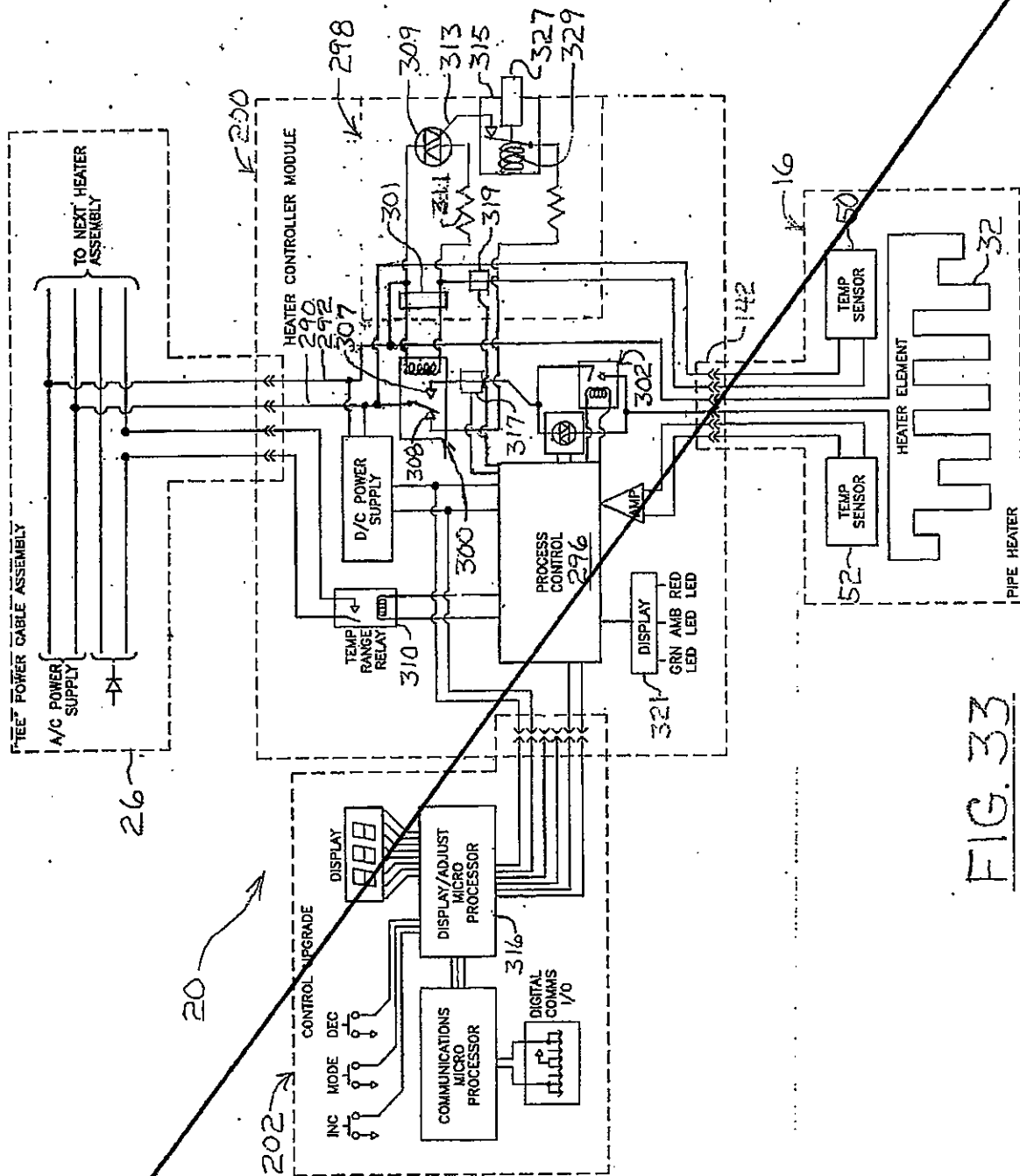


FIG. 32



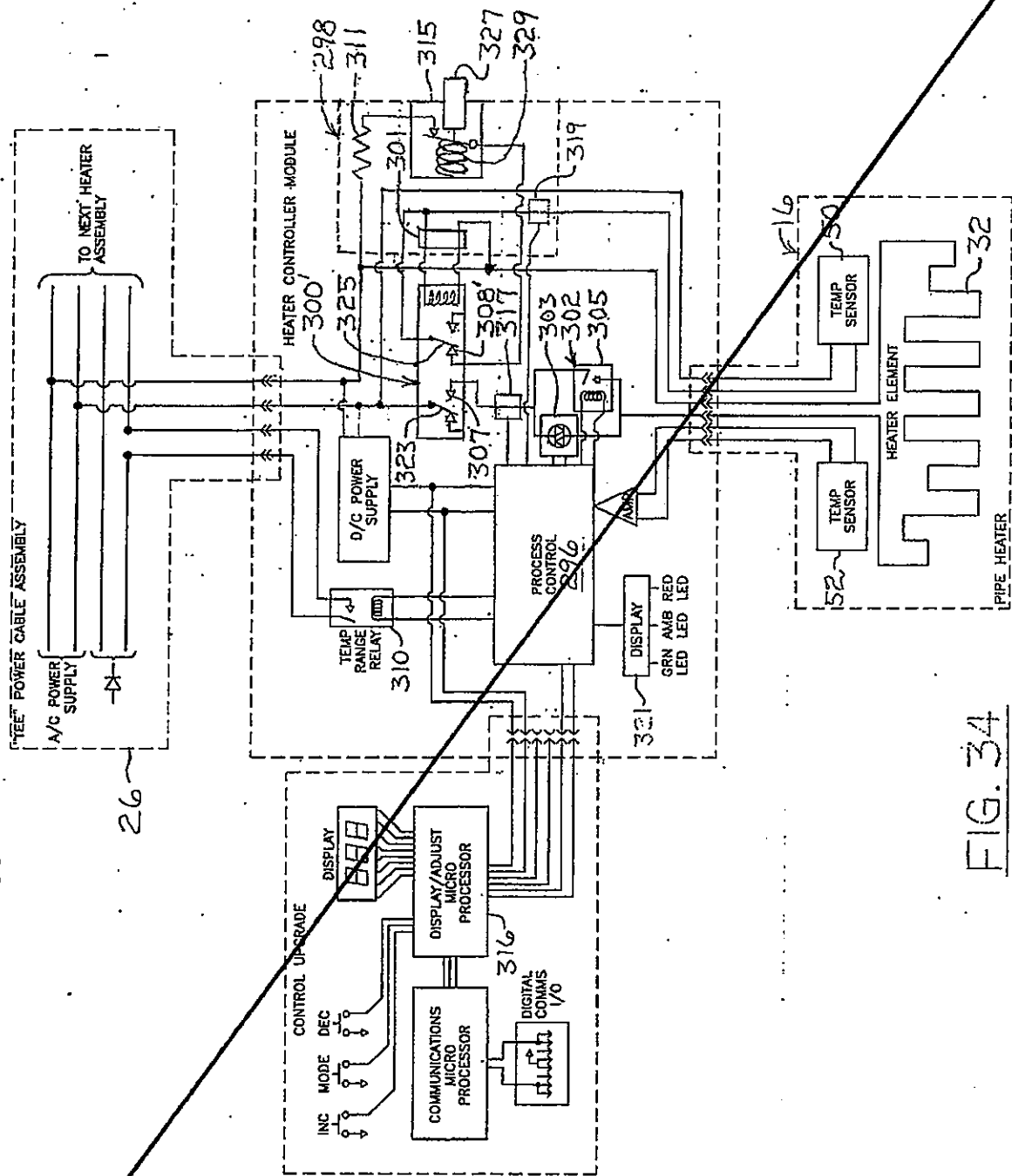


FIG. 34

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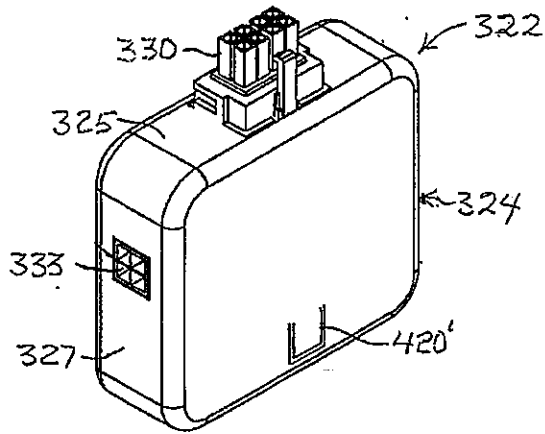


FIG. 35

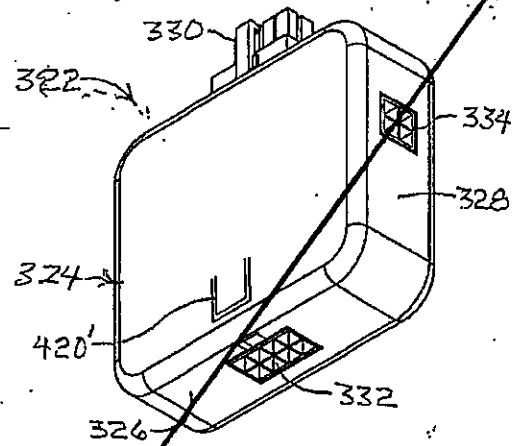


FIG. 36

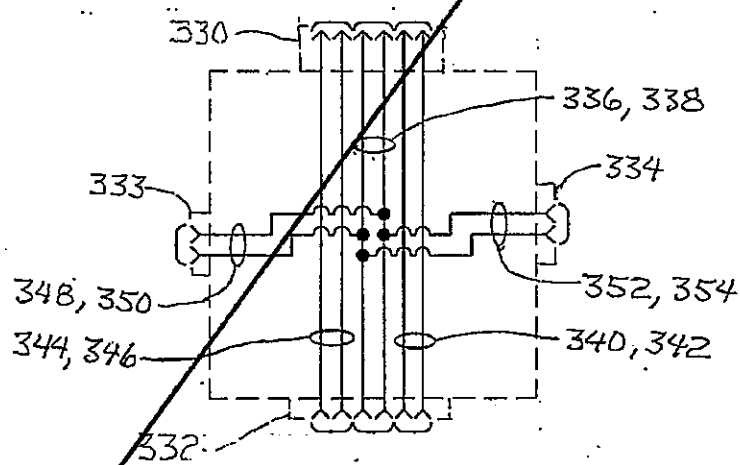
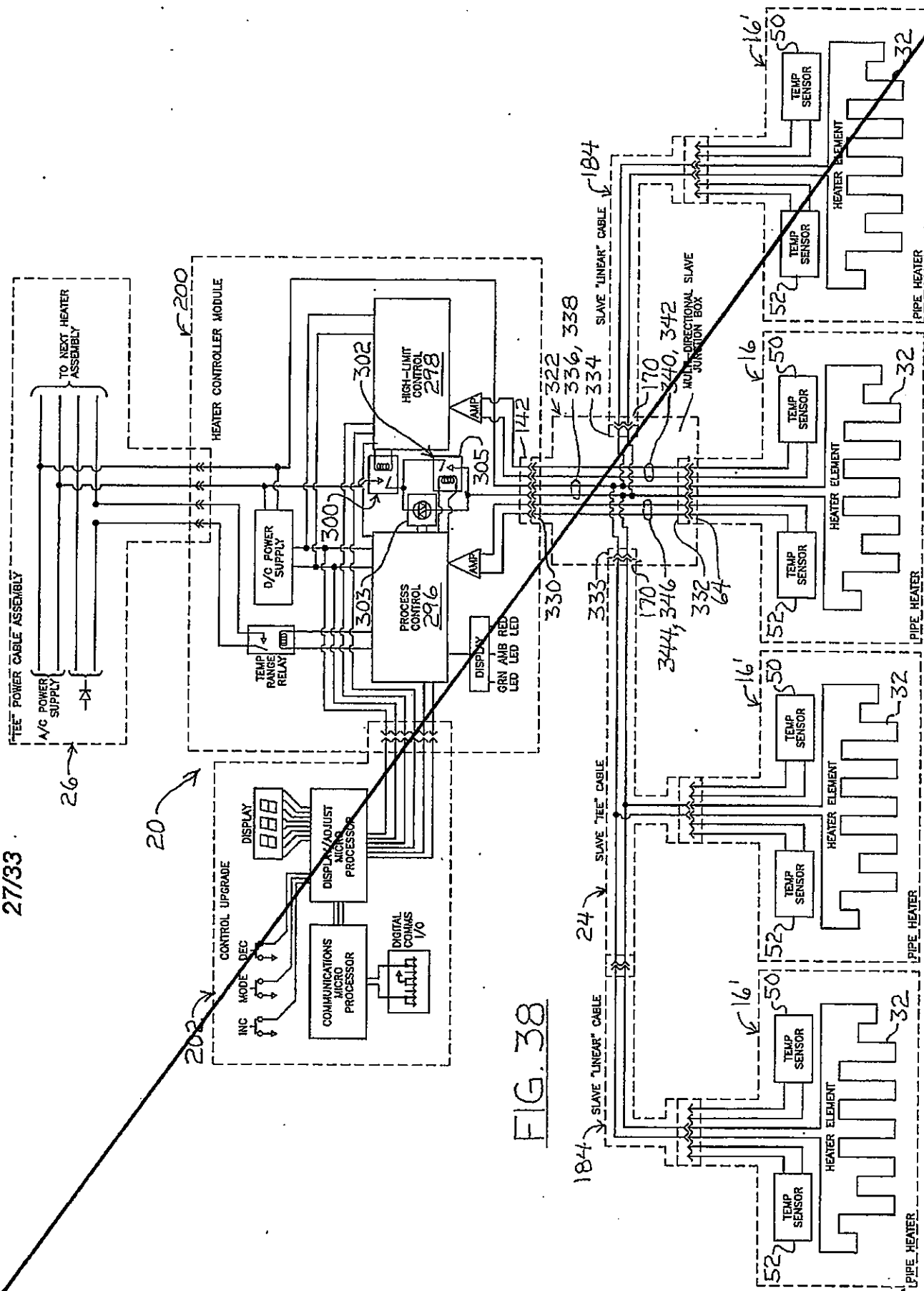


FIG. 37



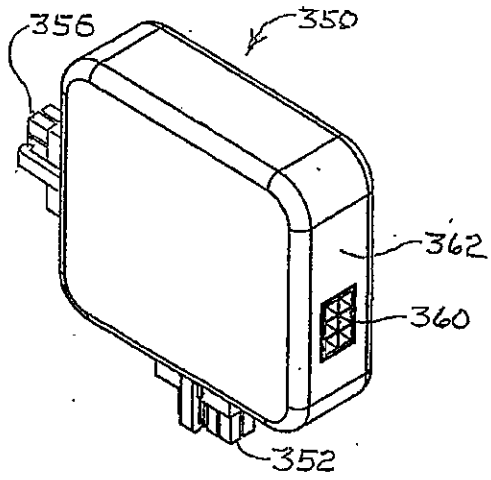


FIG. 39

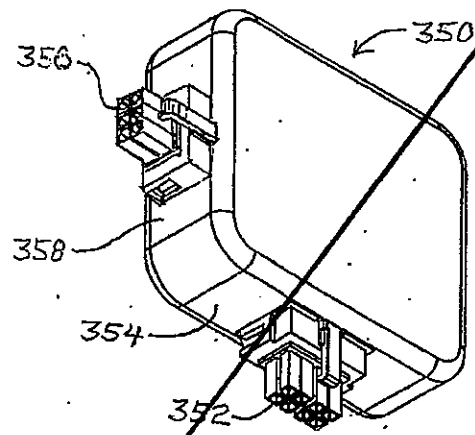


FIG. 40

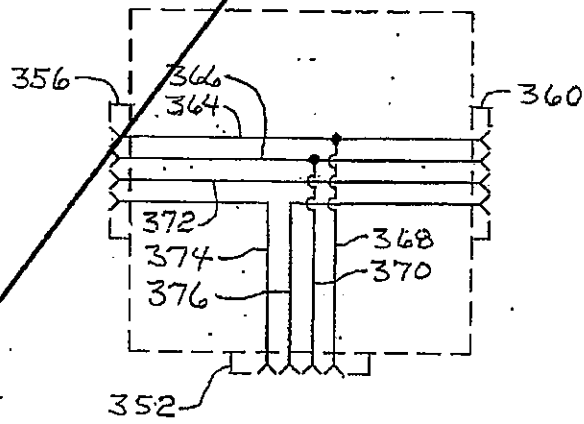


FIG. 41

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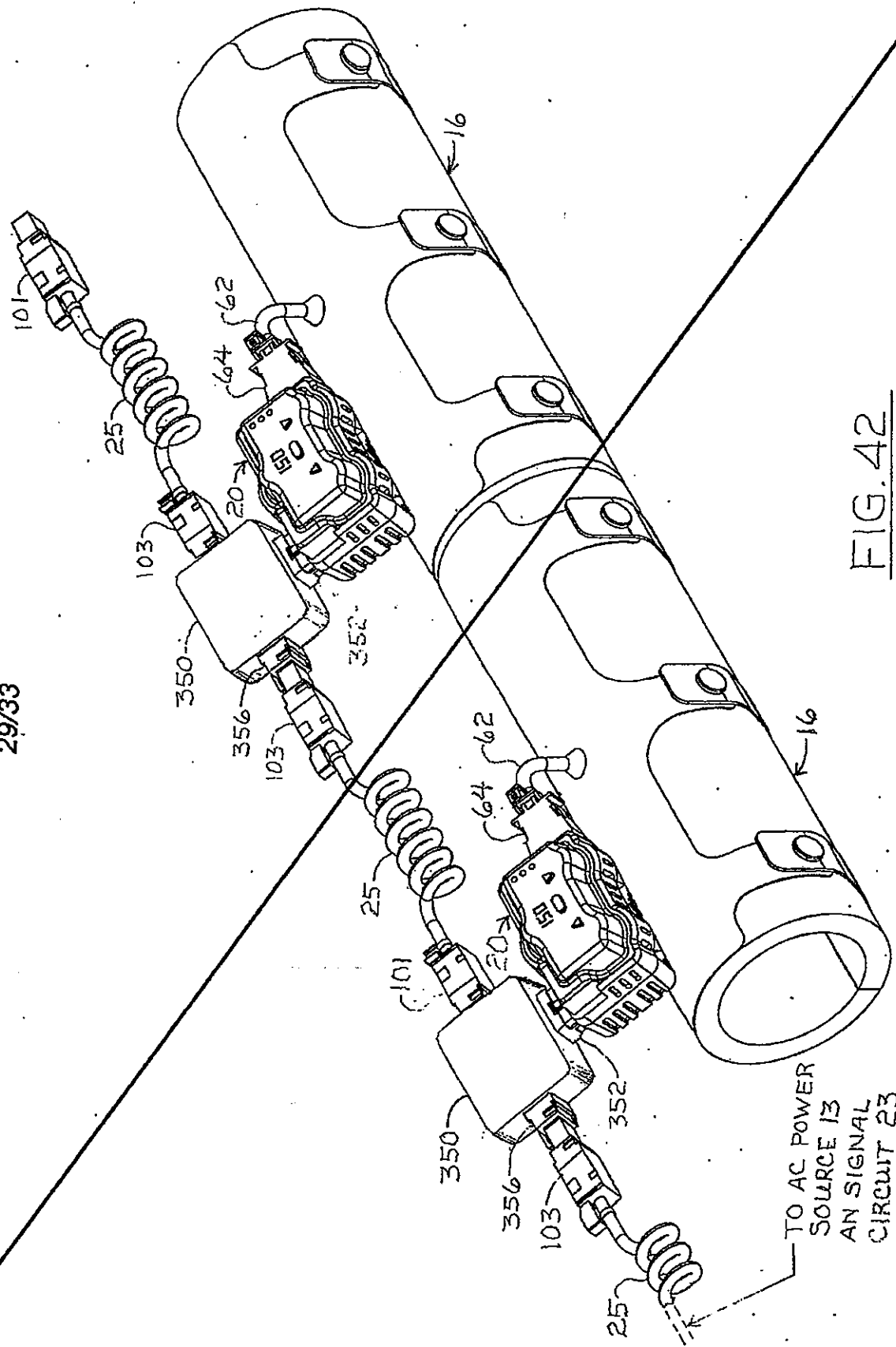


FIG. 42

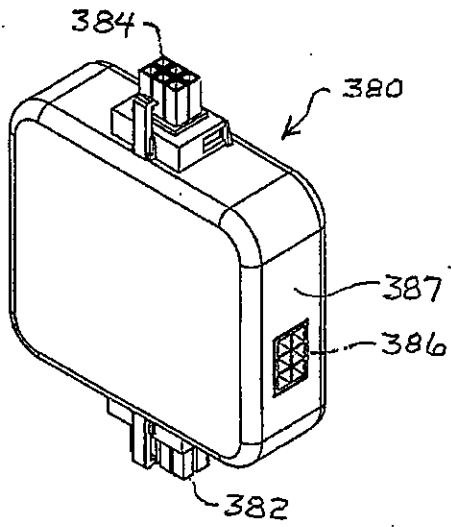


FIG. 43

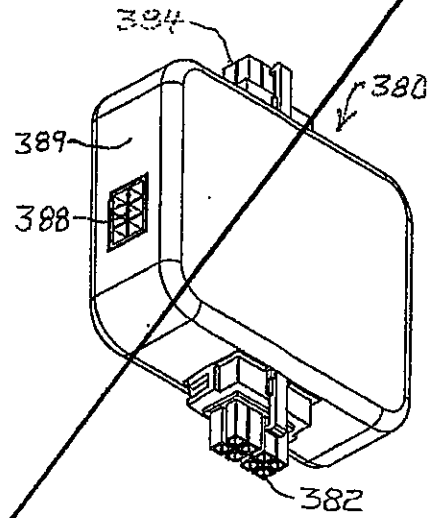


FIG. 44

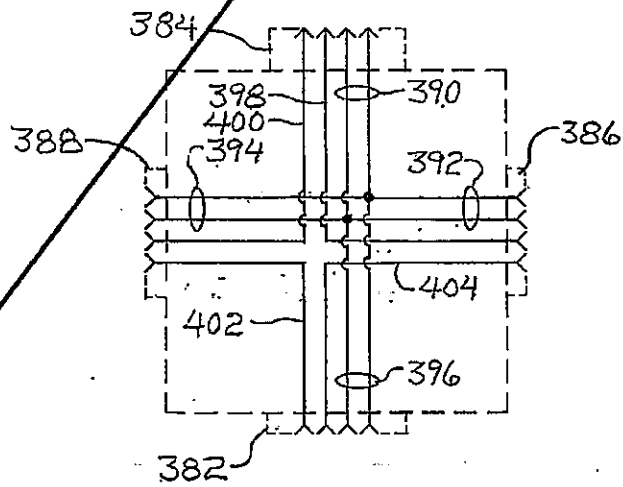


FIG. 45

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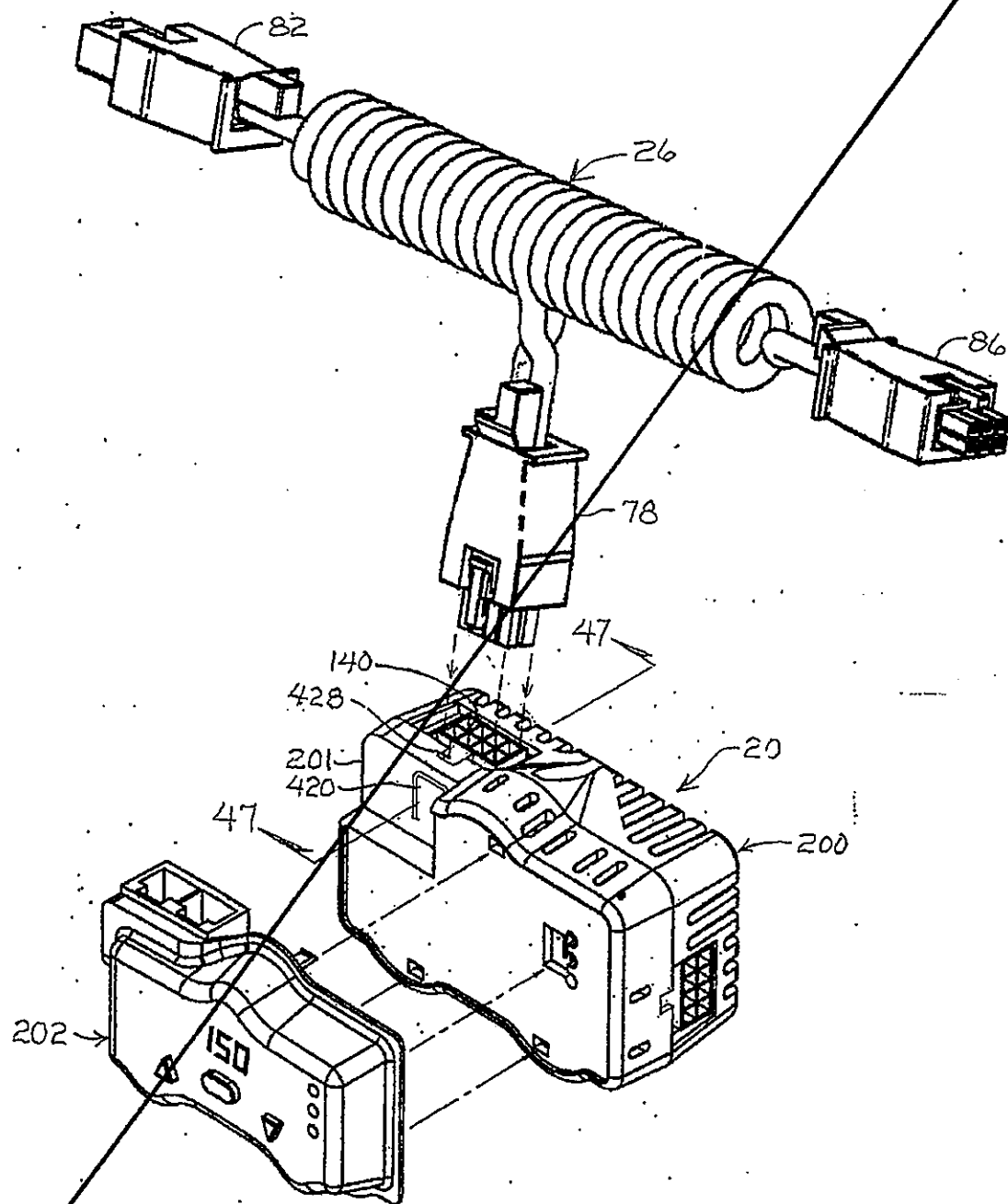


FIG. 46

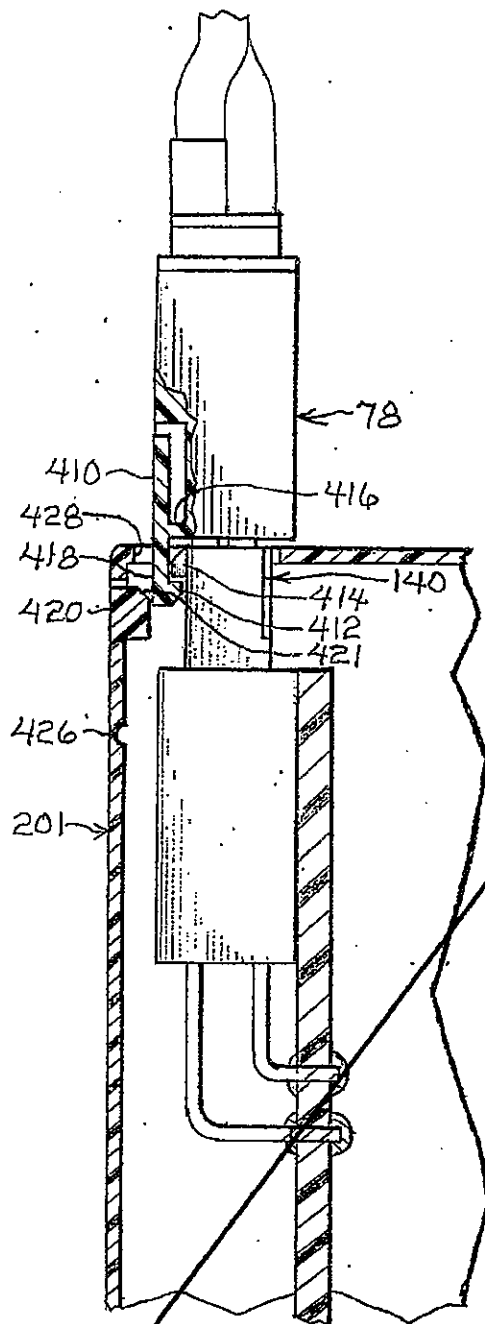


FIG. 47

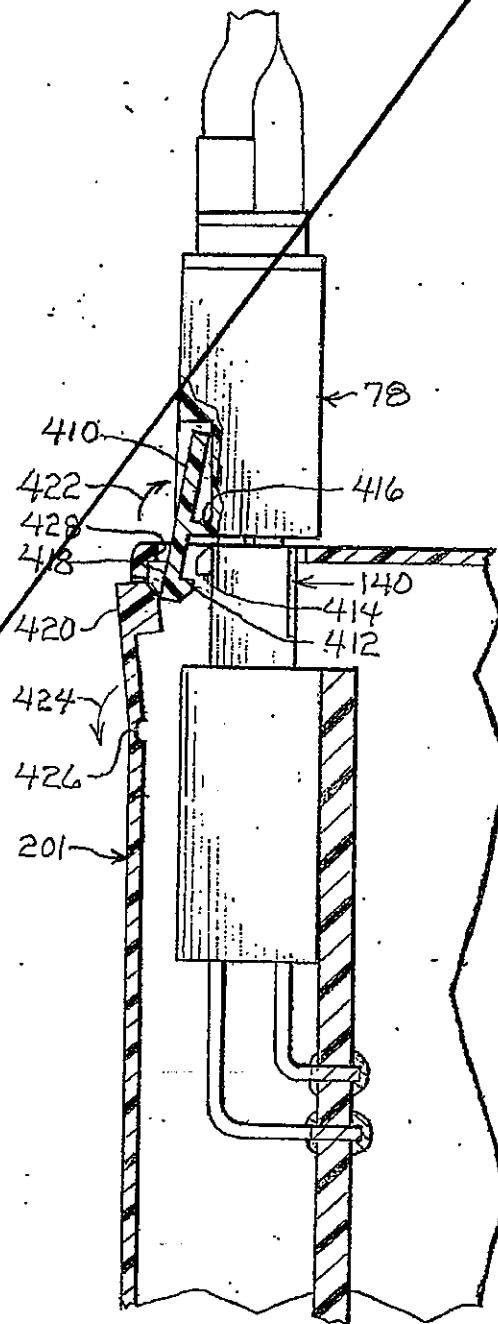


FIG. 48

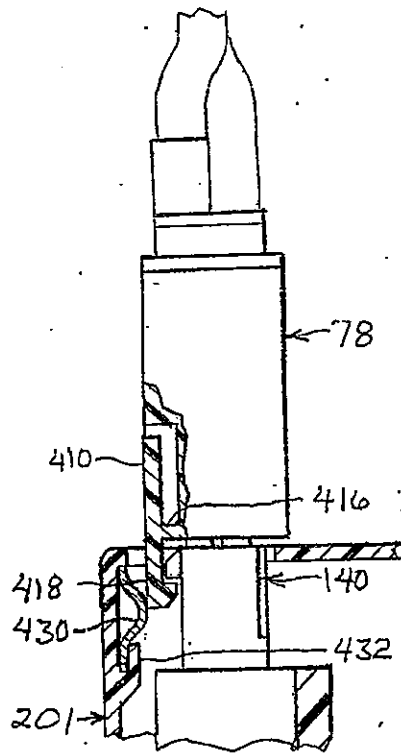


FIG. 49

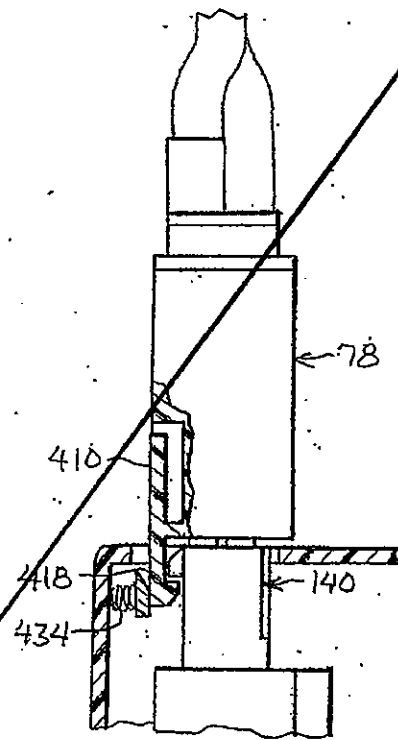


FIG. 50

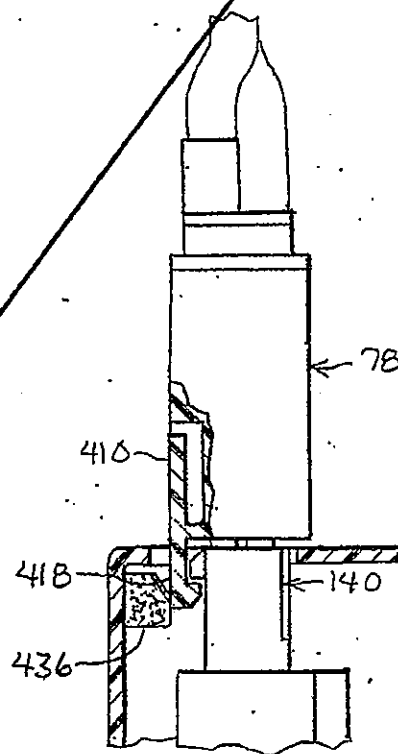
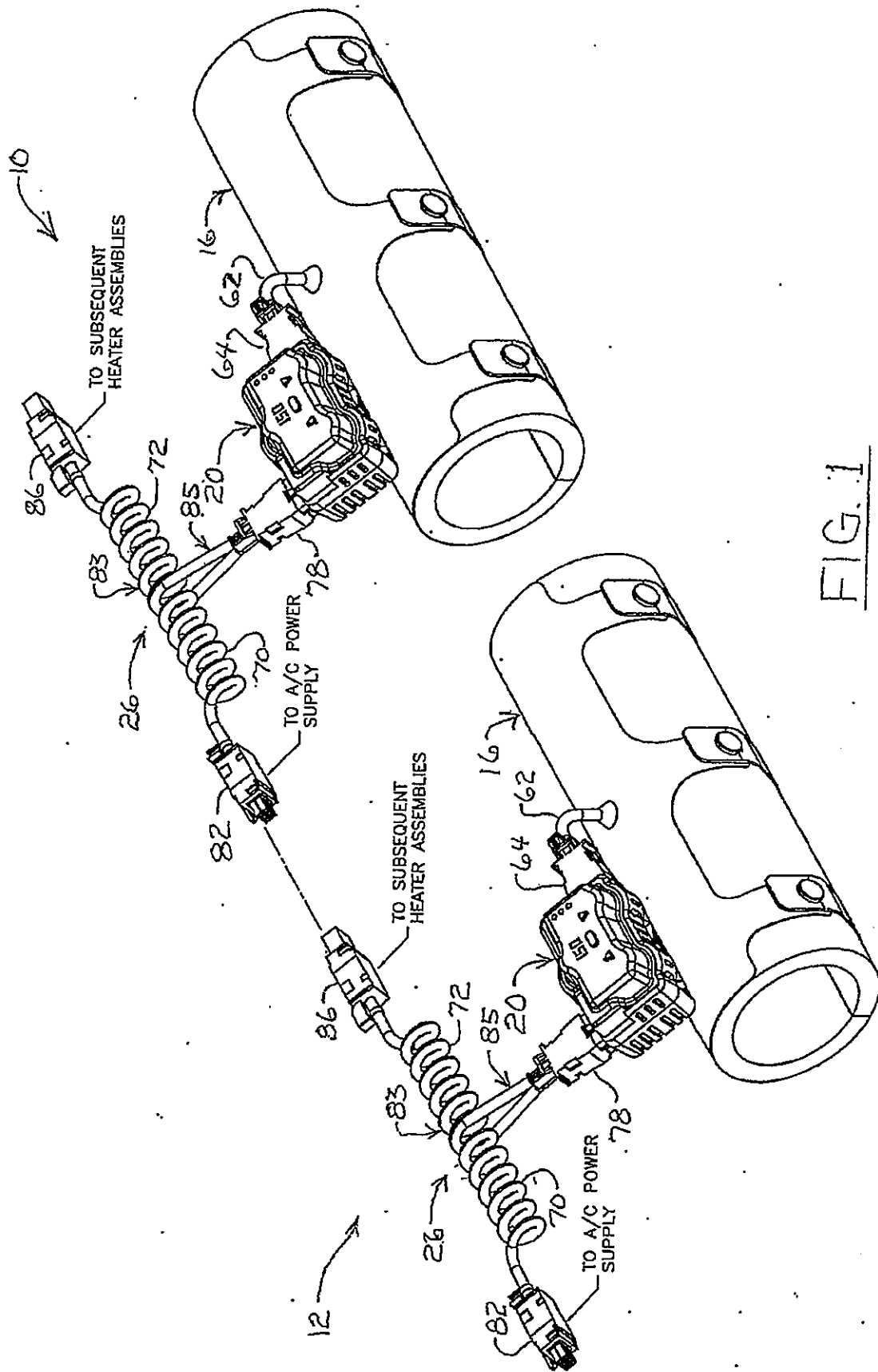
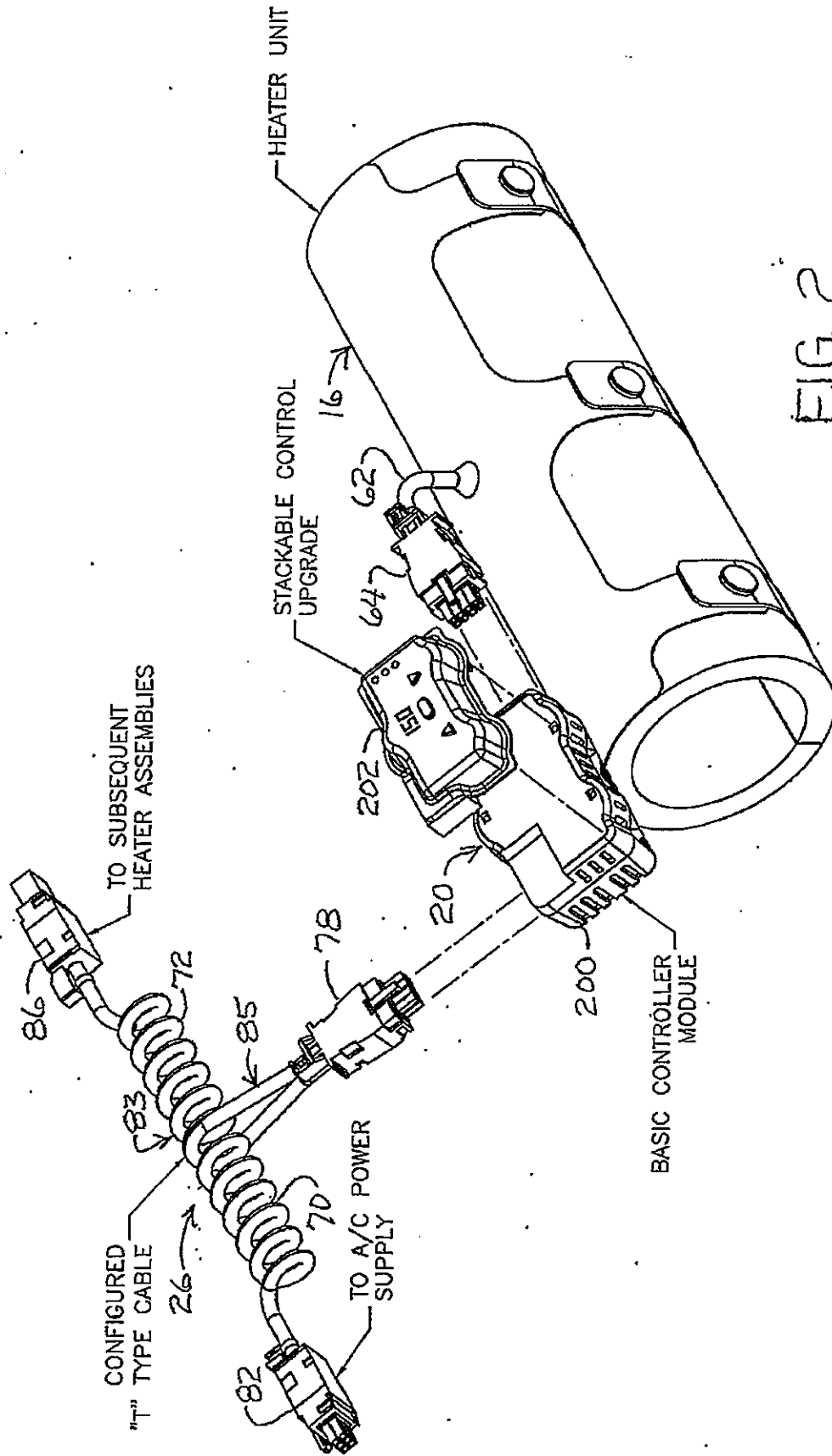


FIG. 51





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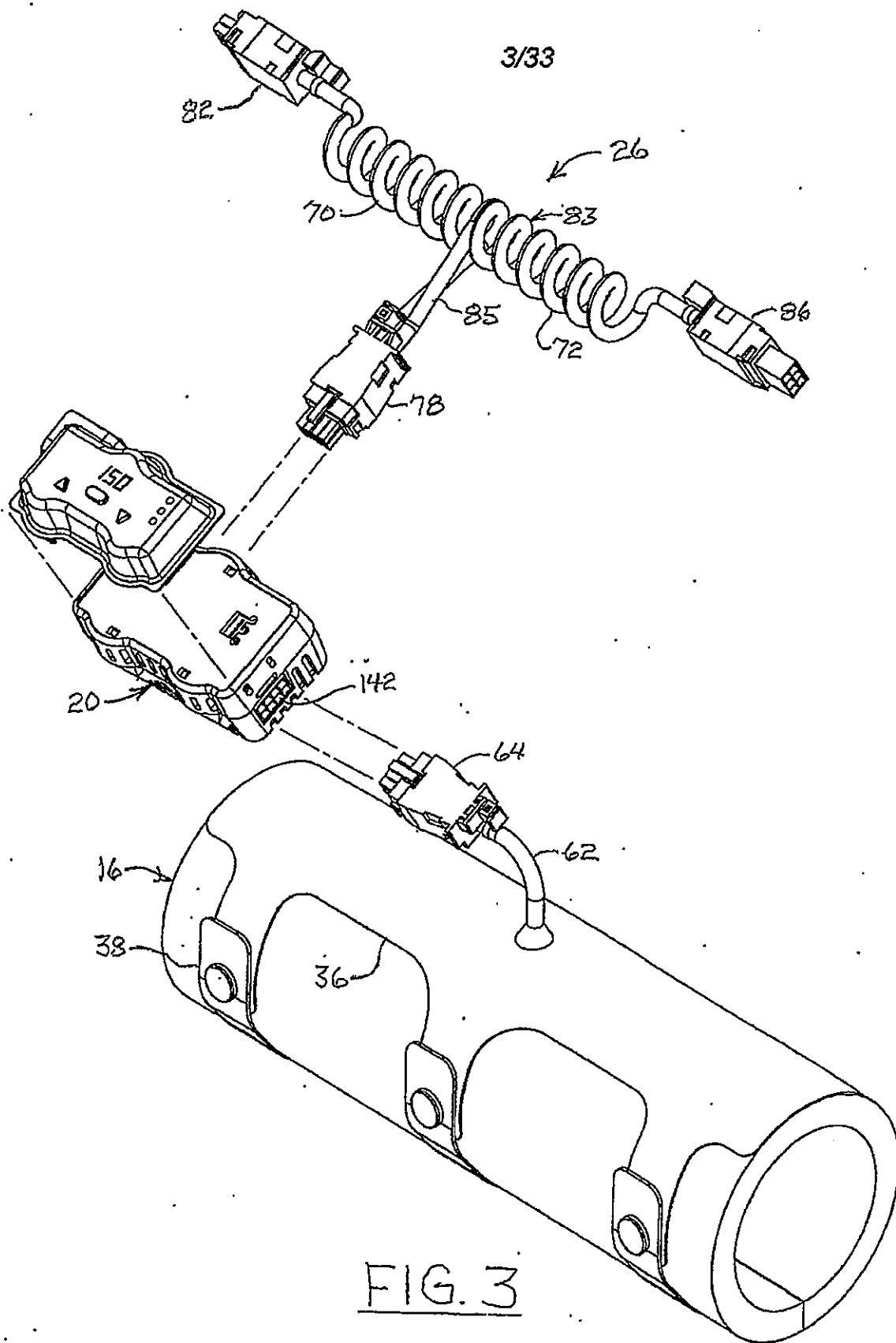
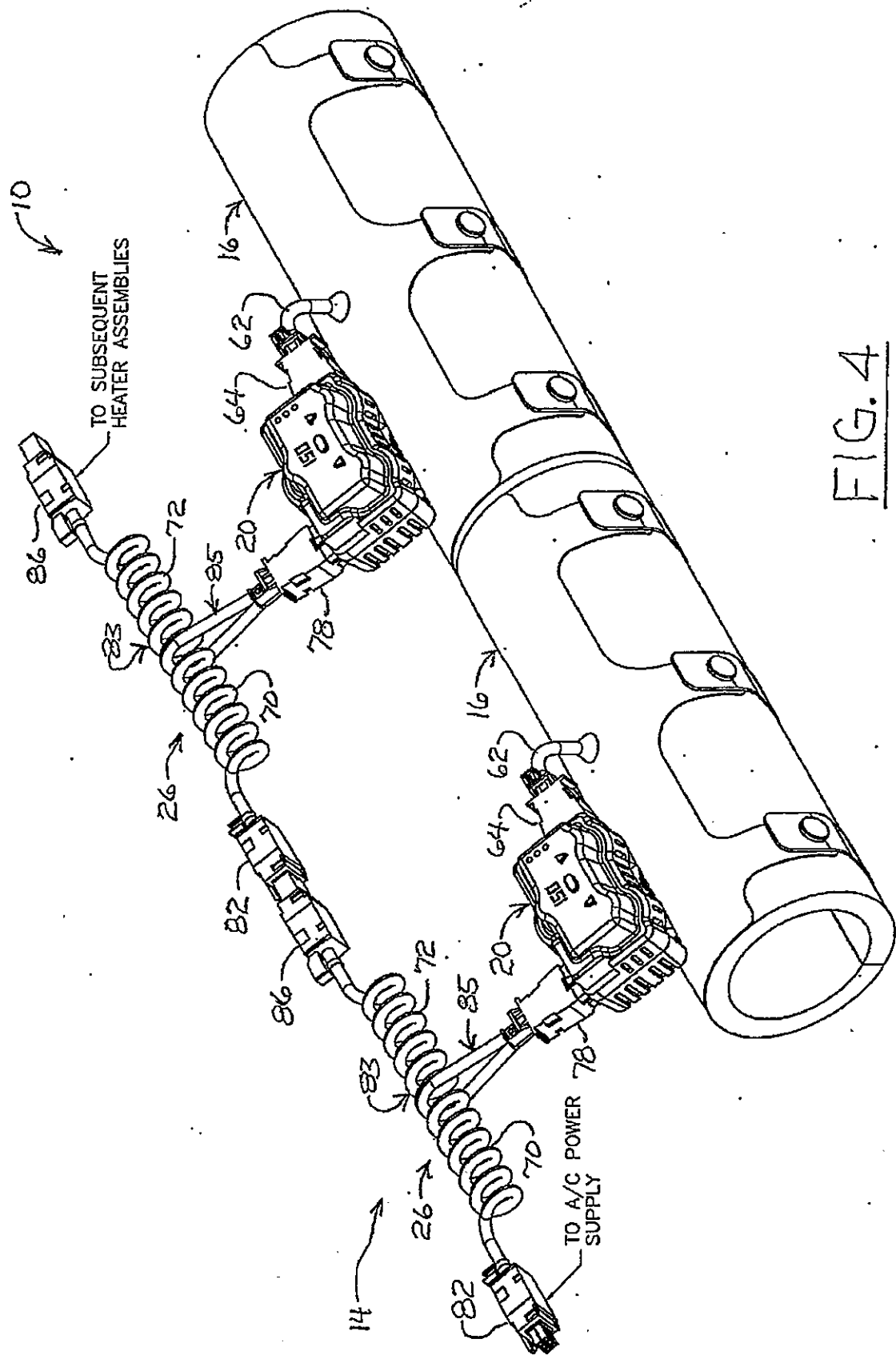
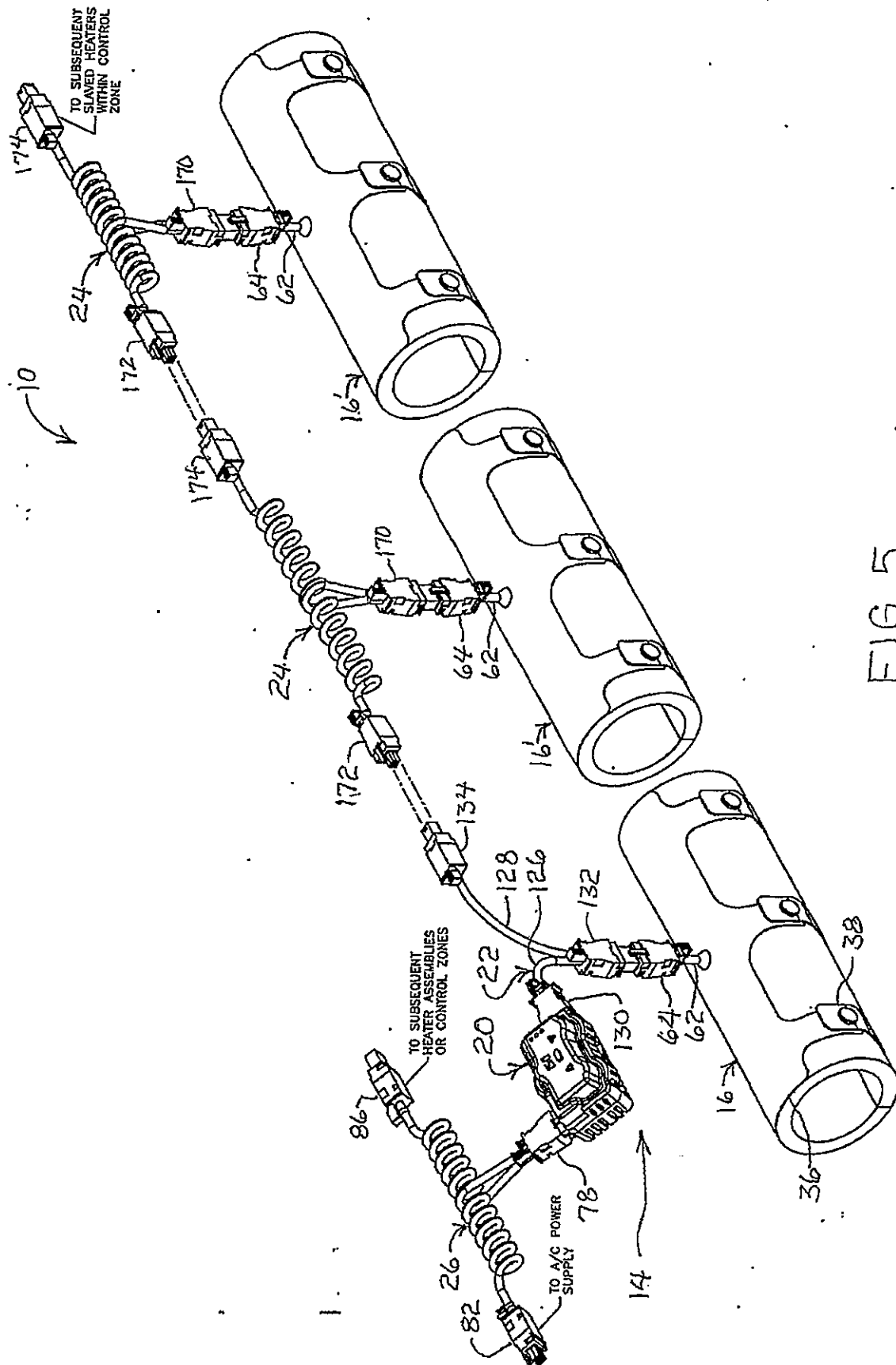
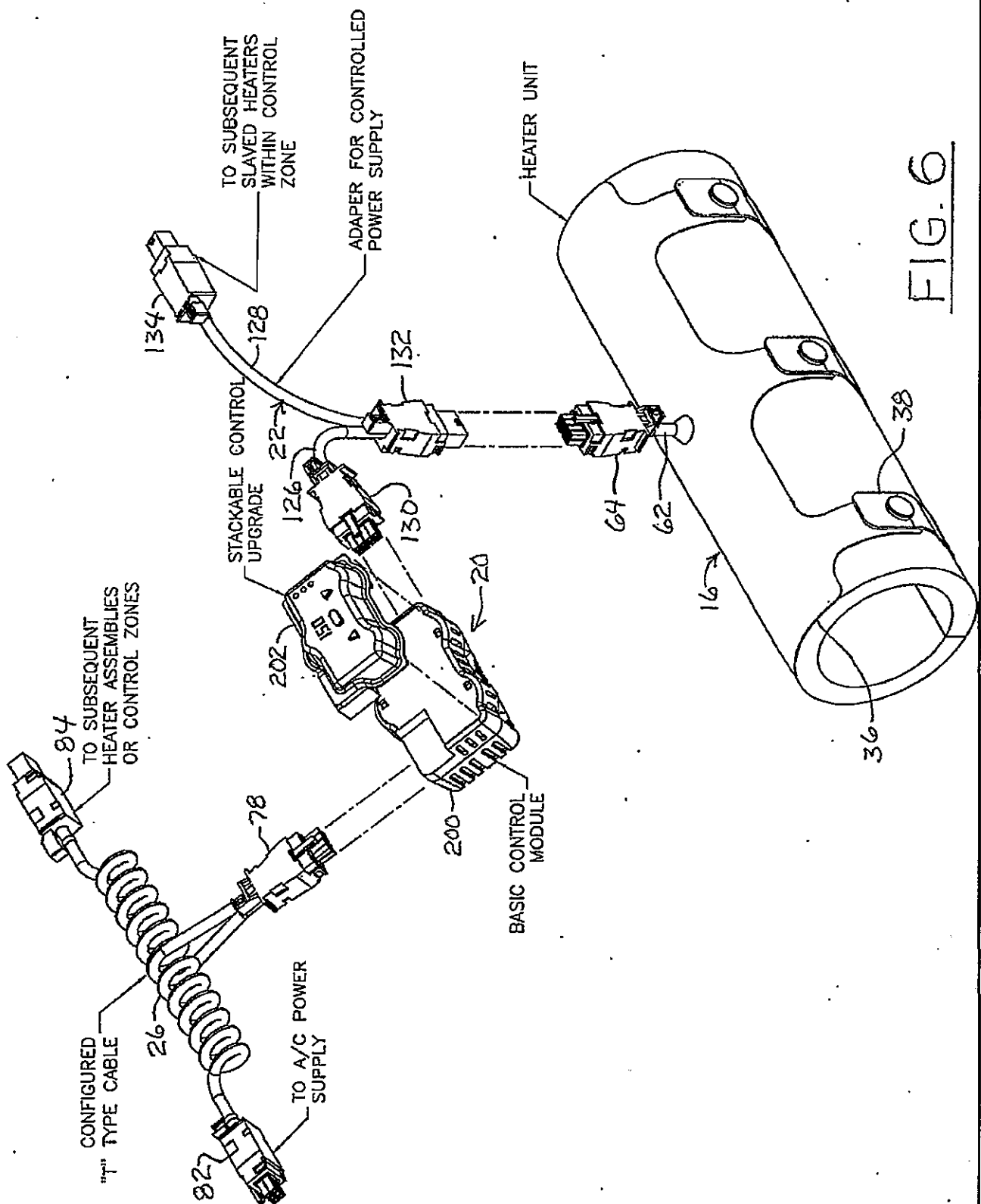


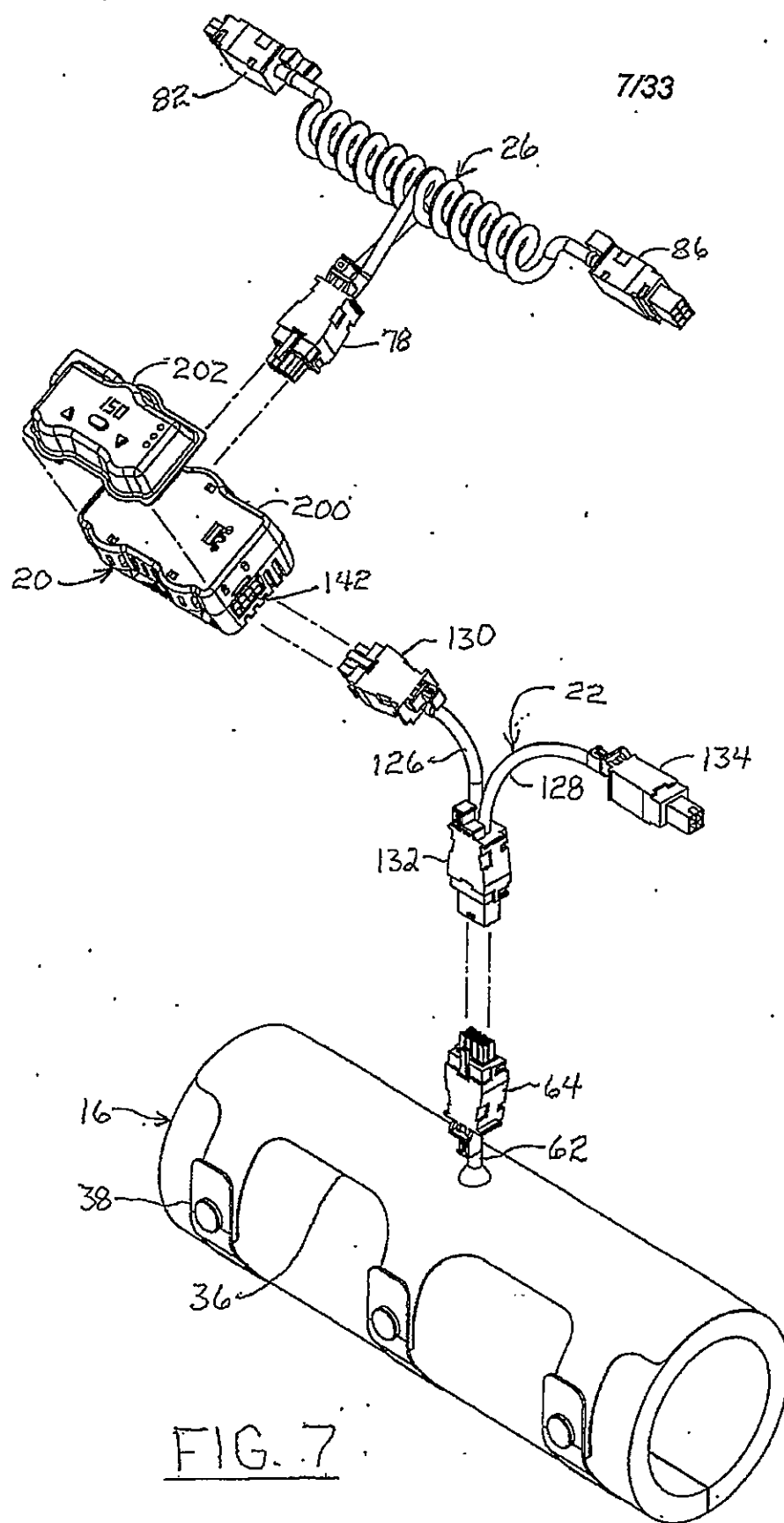
FIG. 3

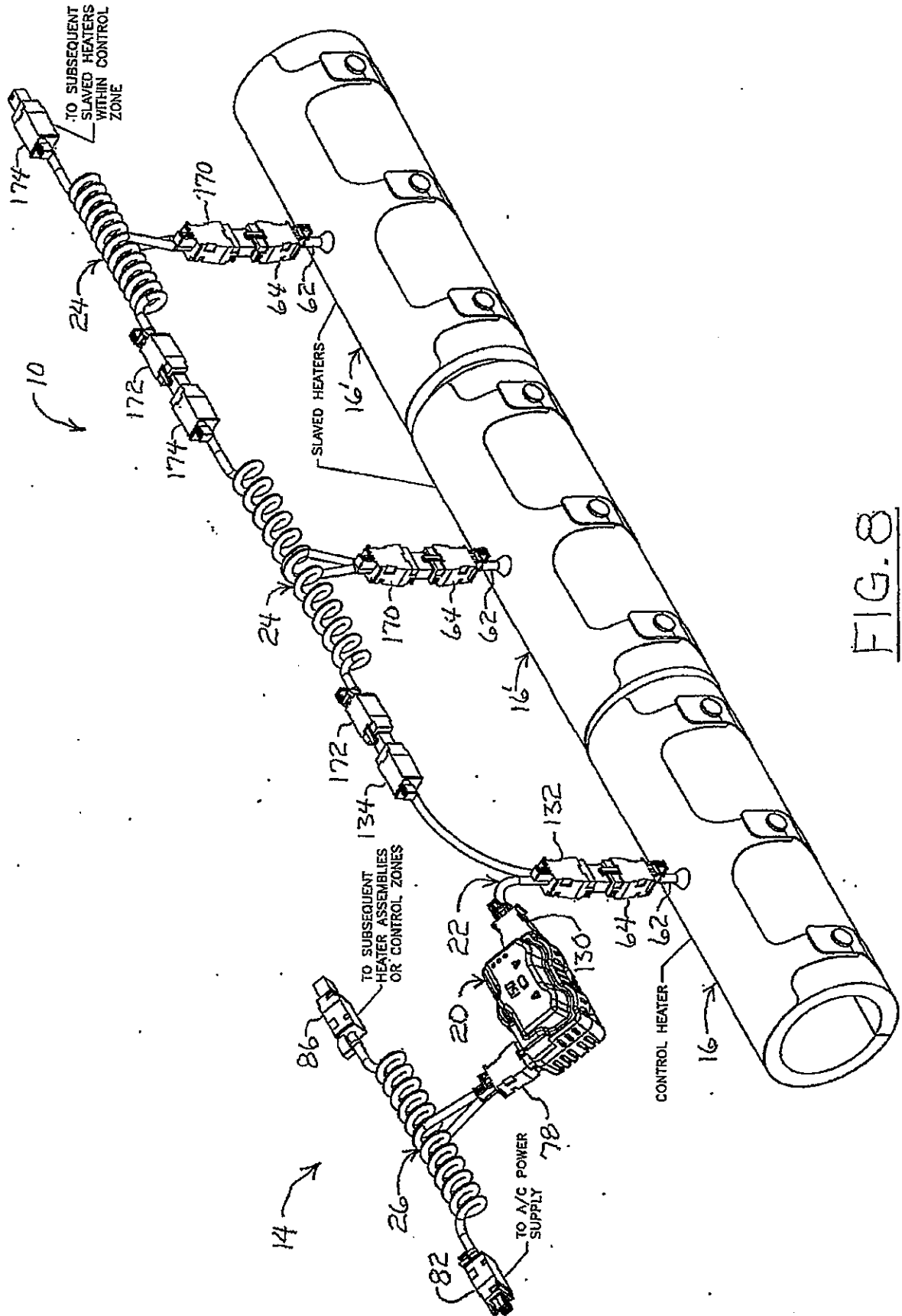




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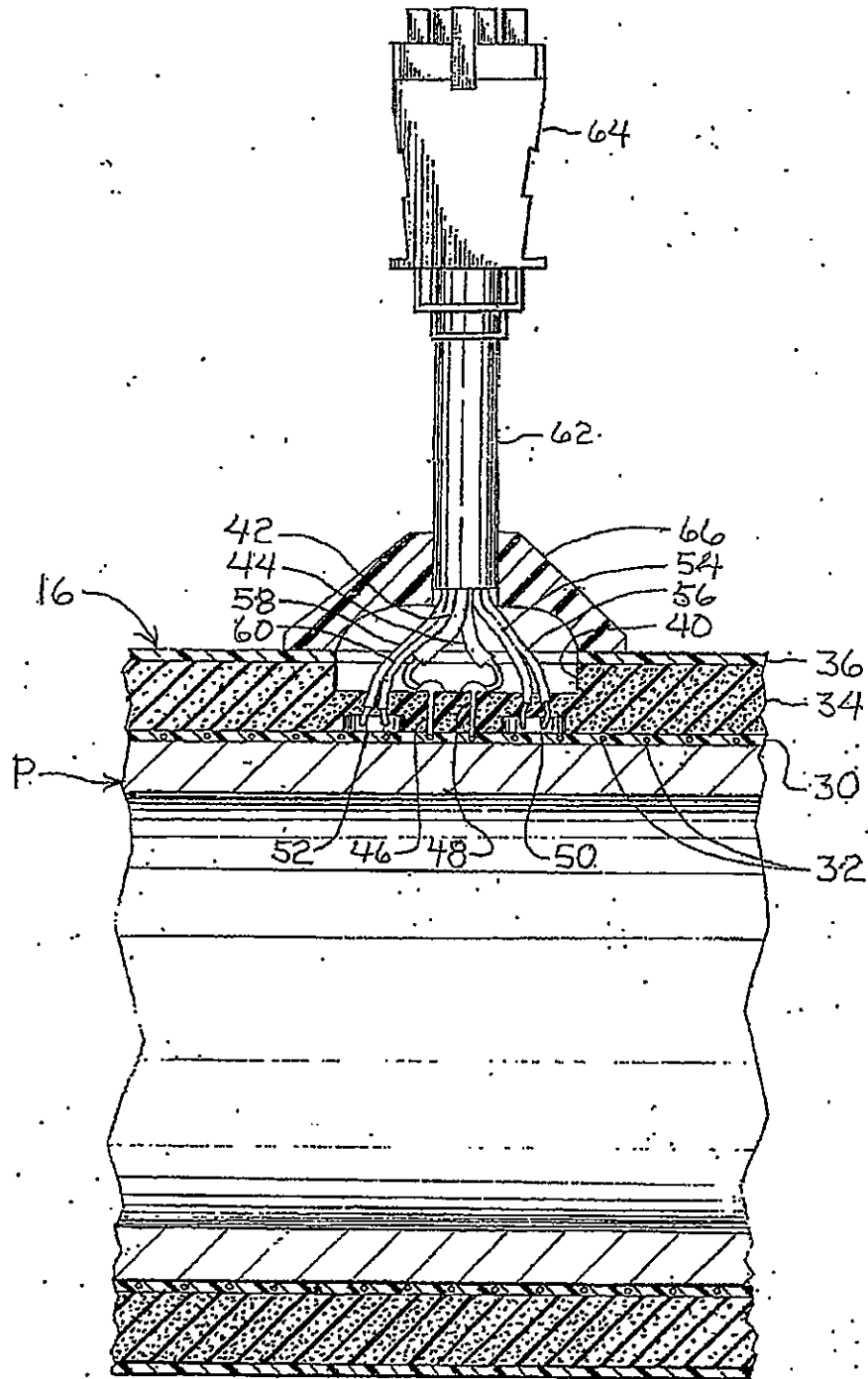


FIG. 9

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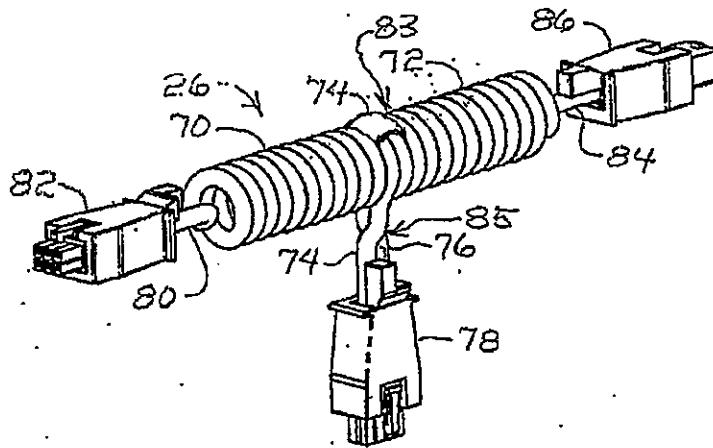


FIG. 10

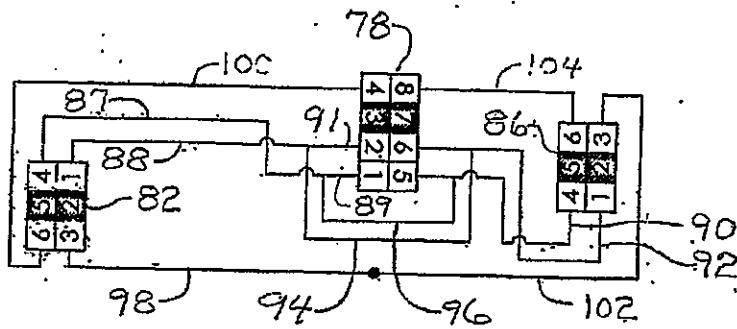


FIG. 11

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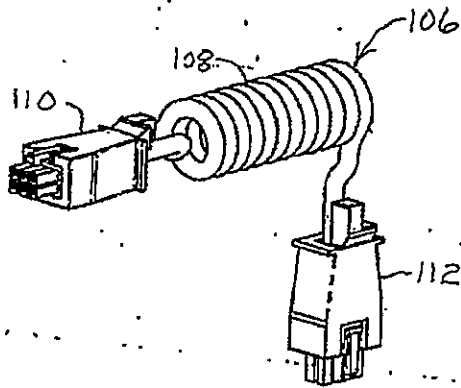


FIG. 12

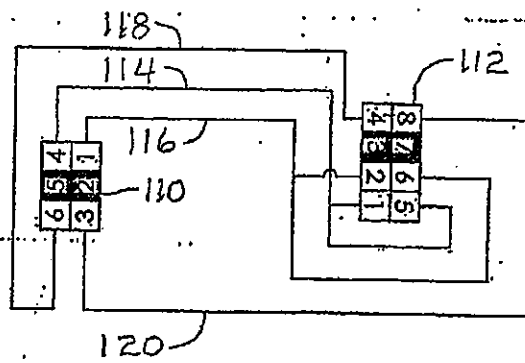
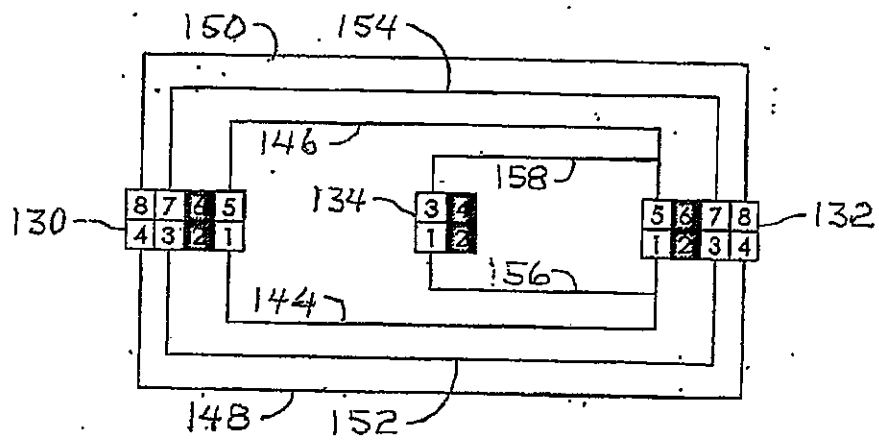
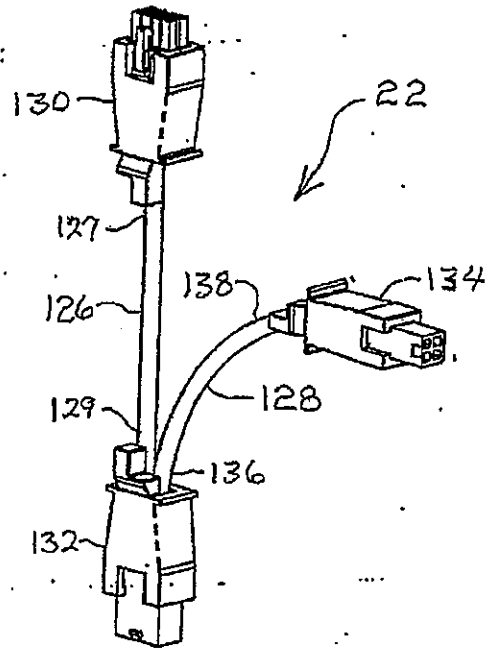


FIG. 13

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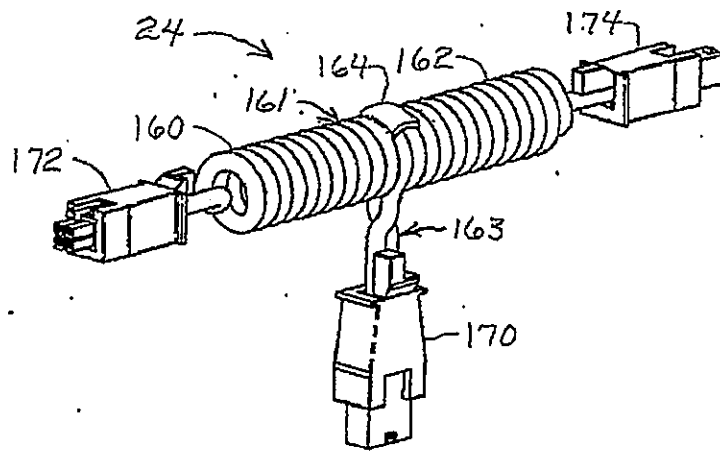


FIG. 16

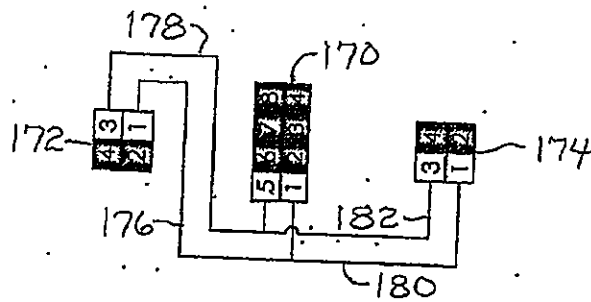


FIG. 17

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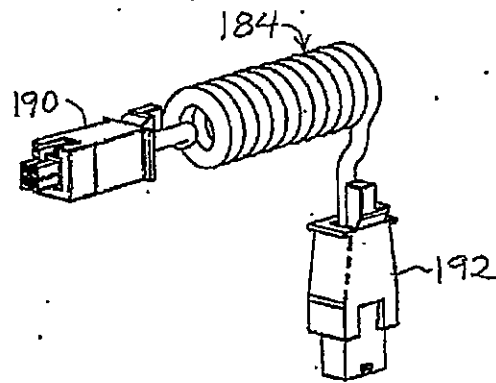


FIG. 18

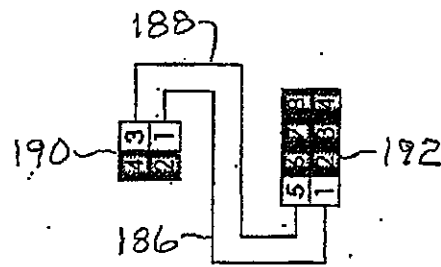


FIG. 19

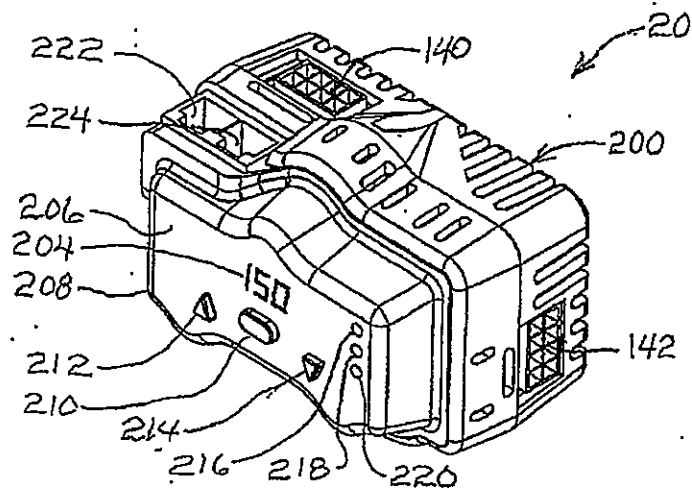


FIG. 20

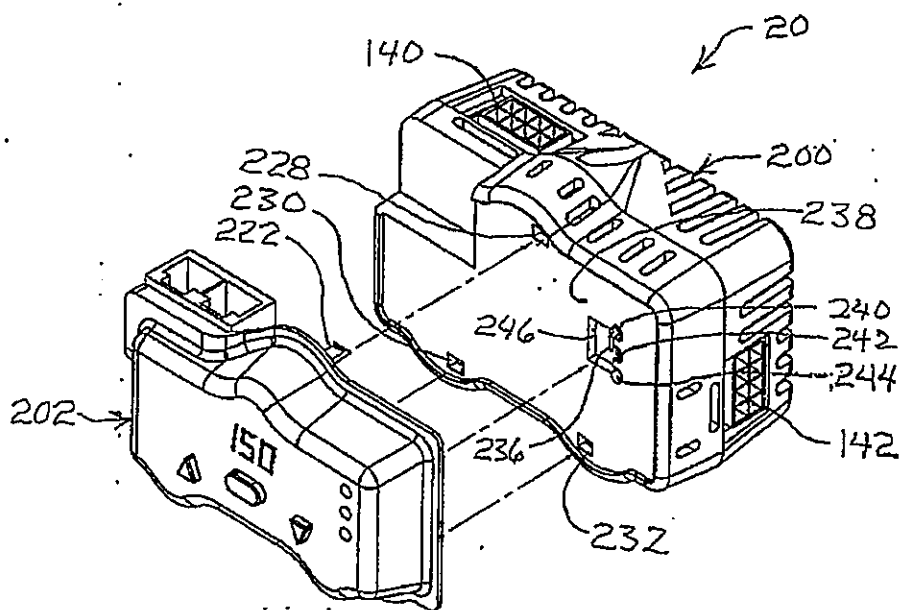


FIG. 21

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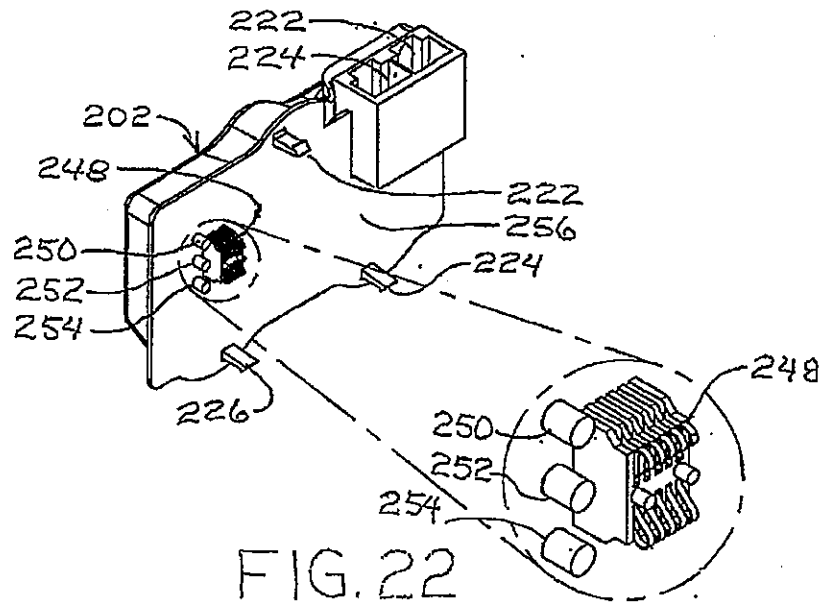


FIG. 22

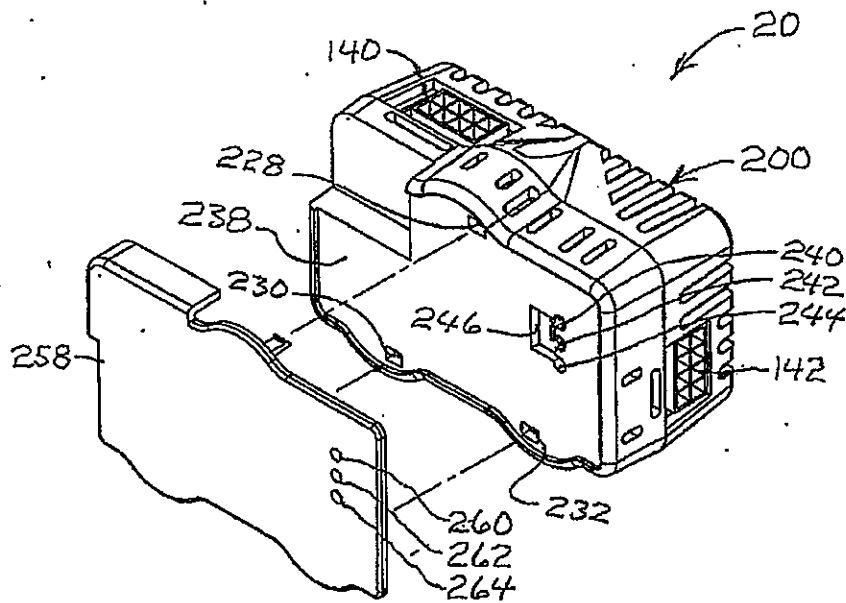
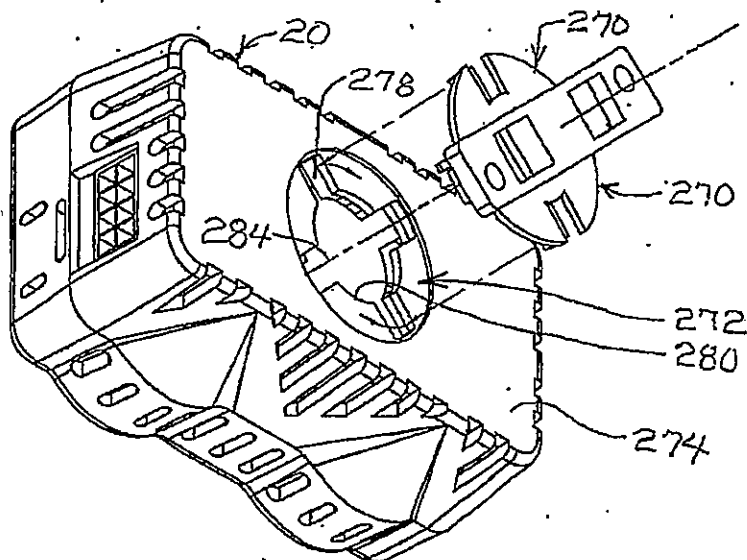
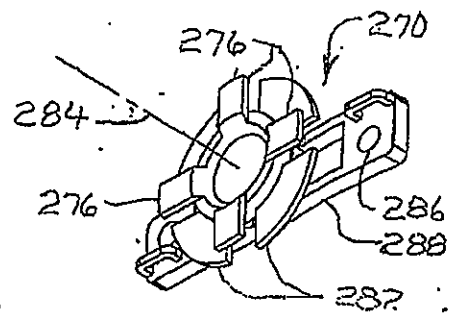
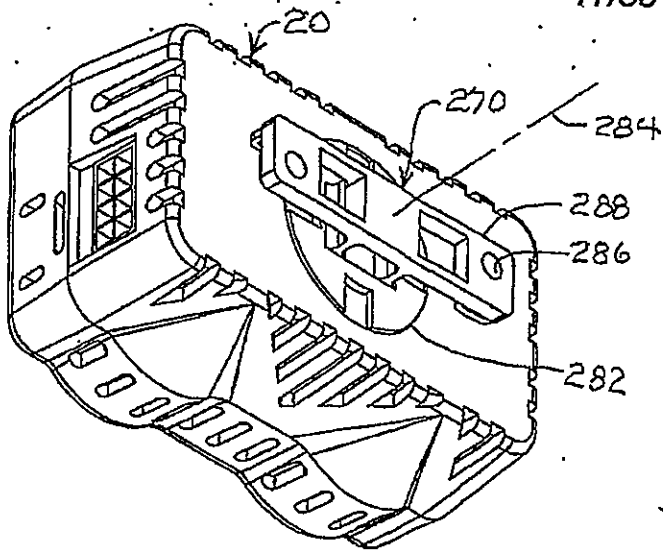


FIG. 23

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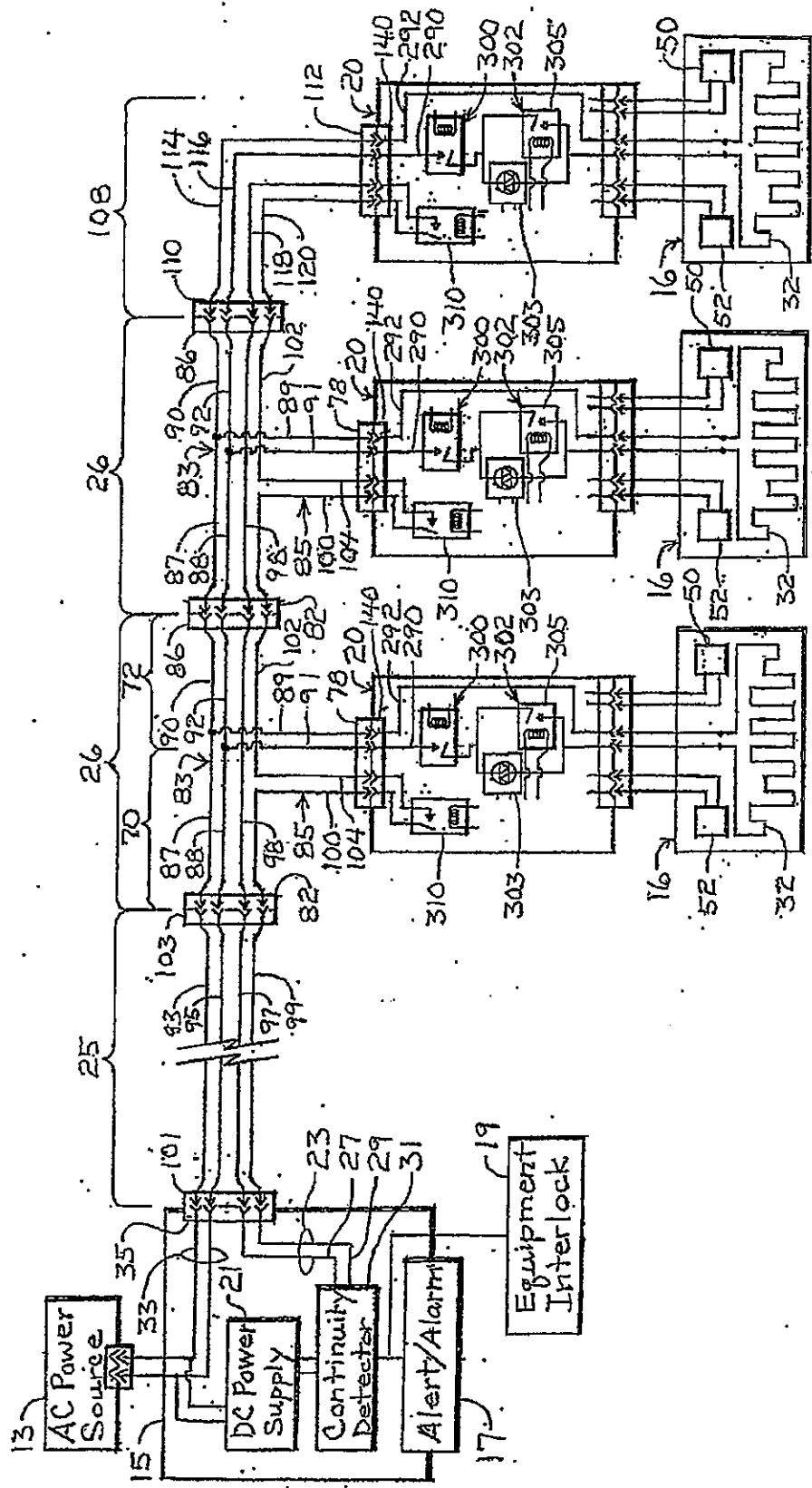
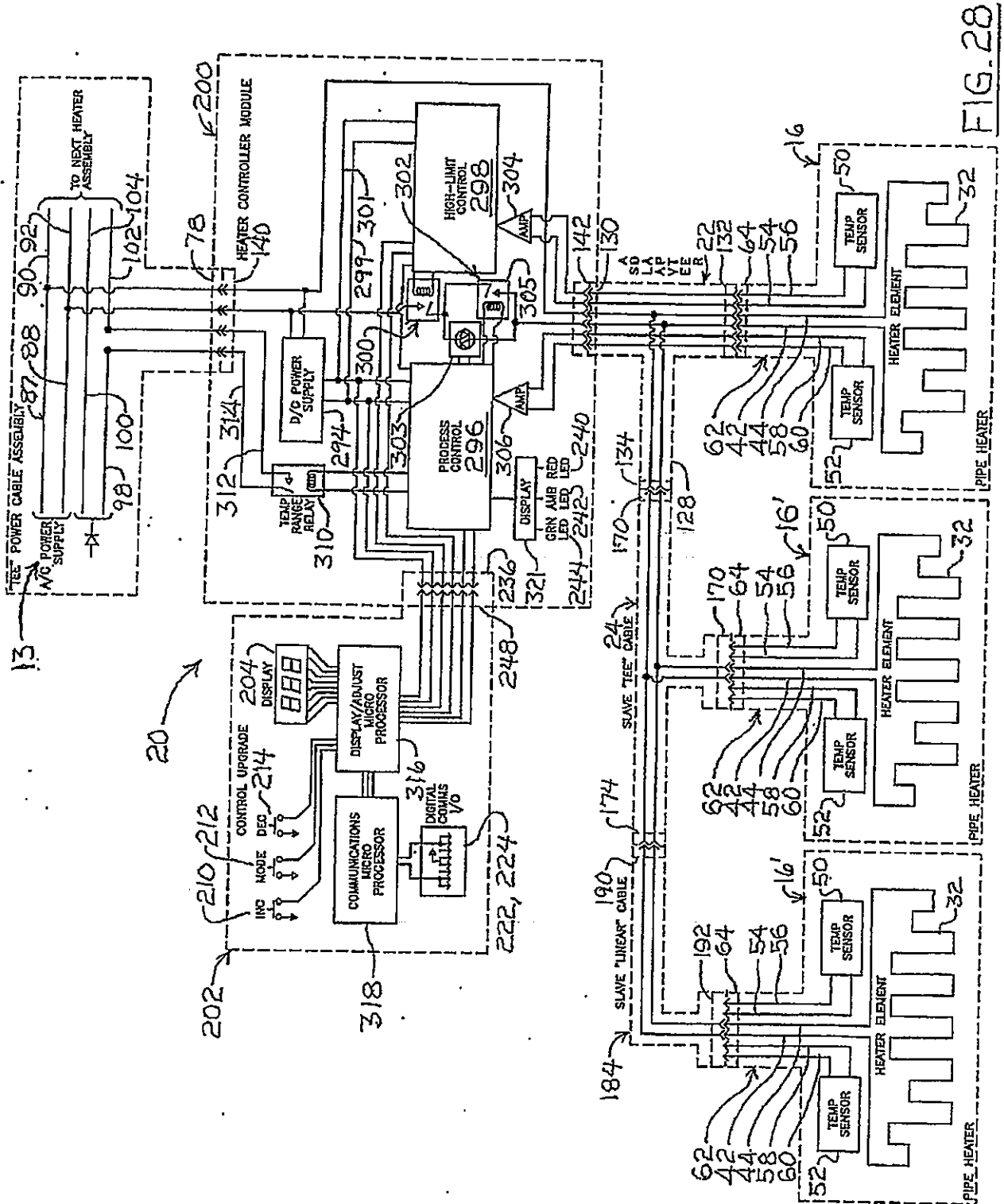


FIG. 27





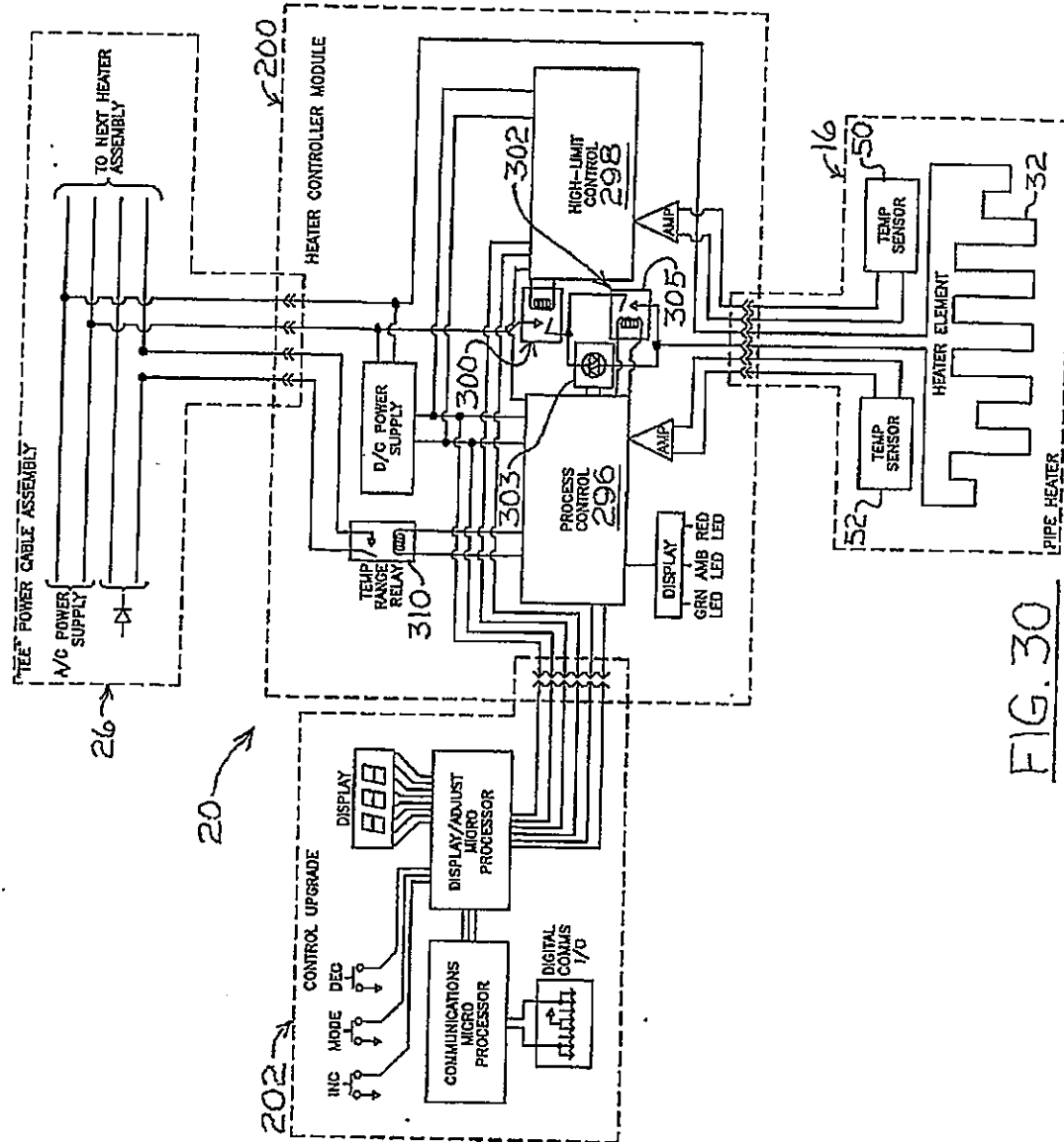
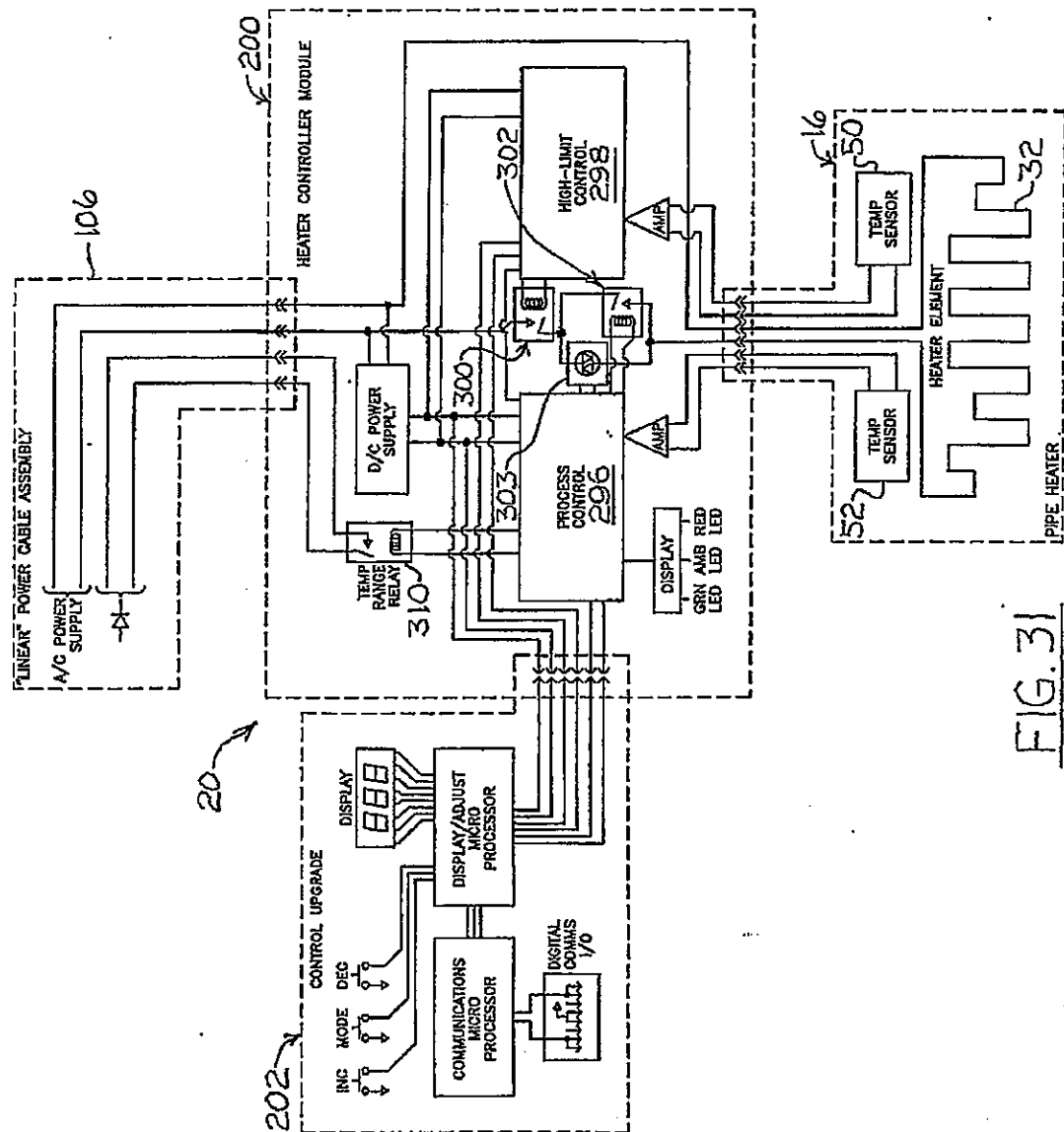


FIG. 30



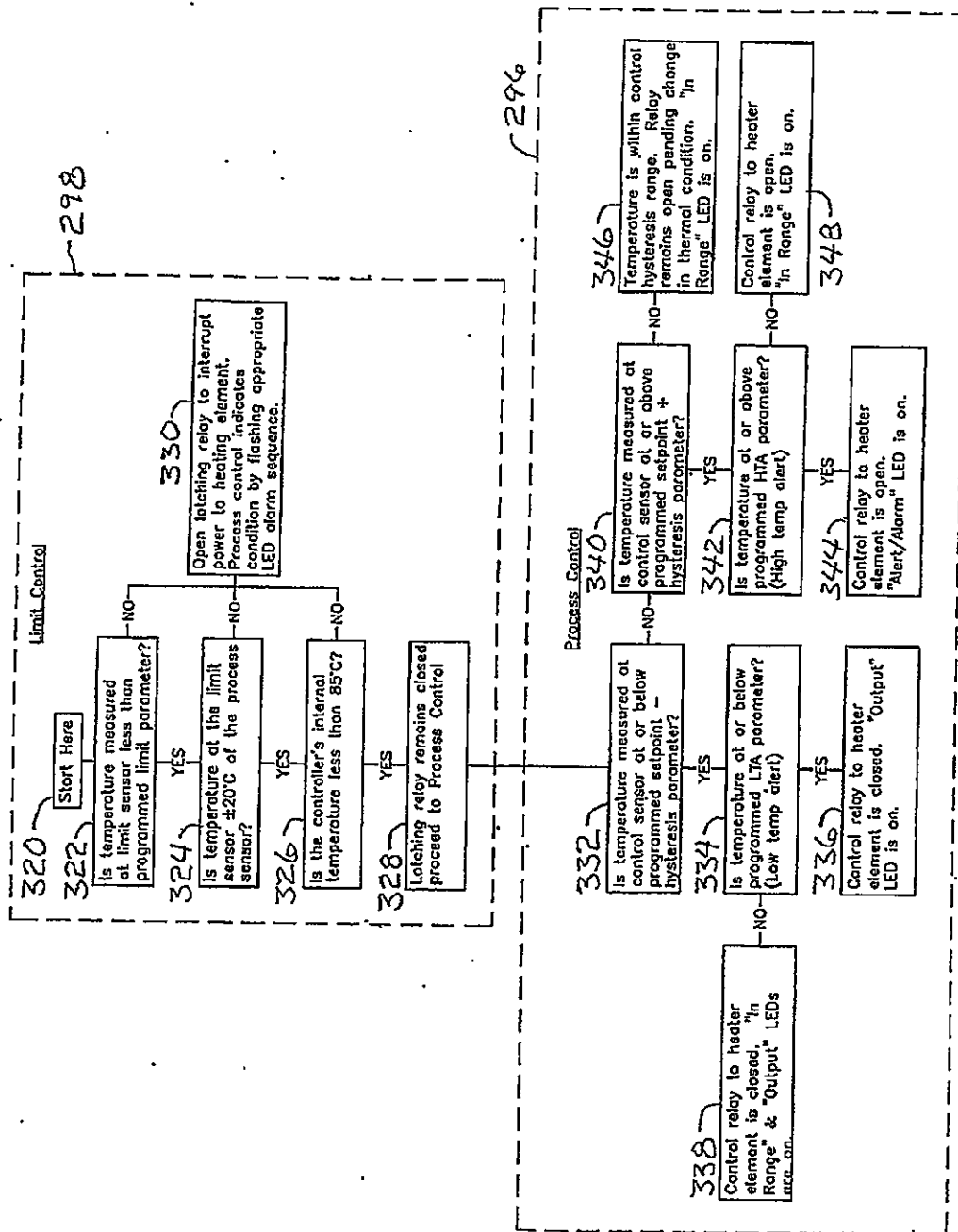
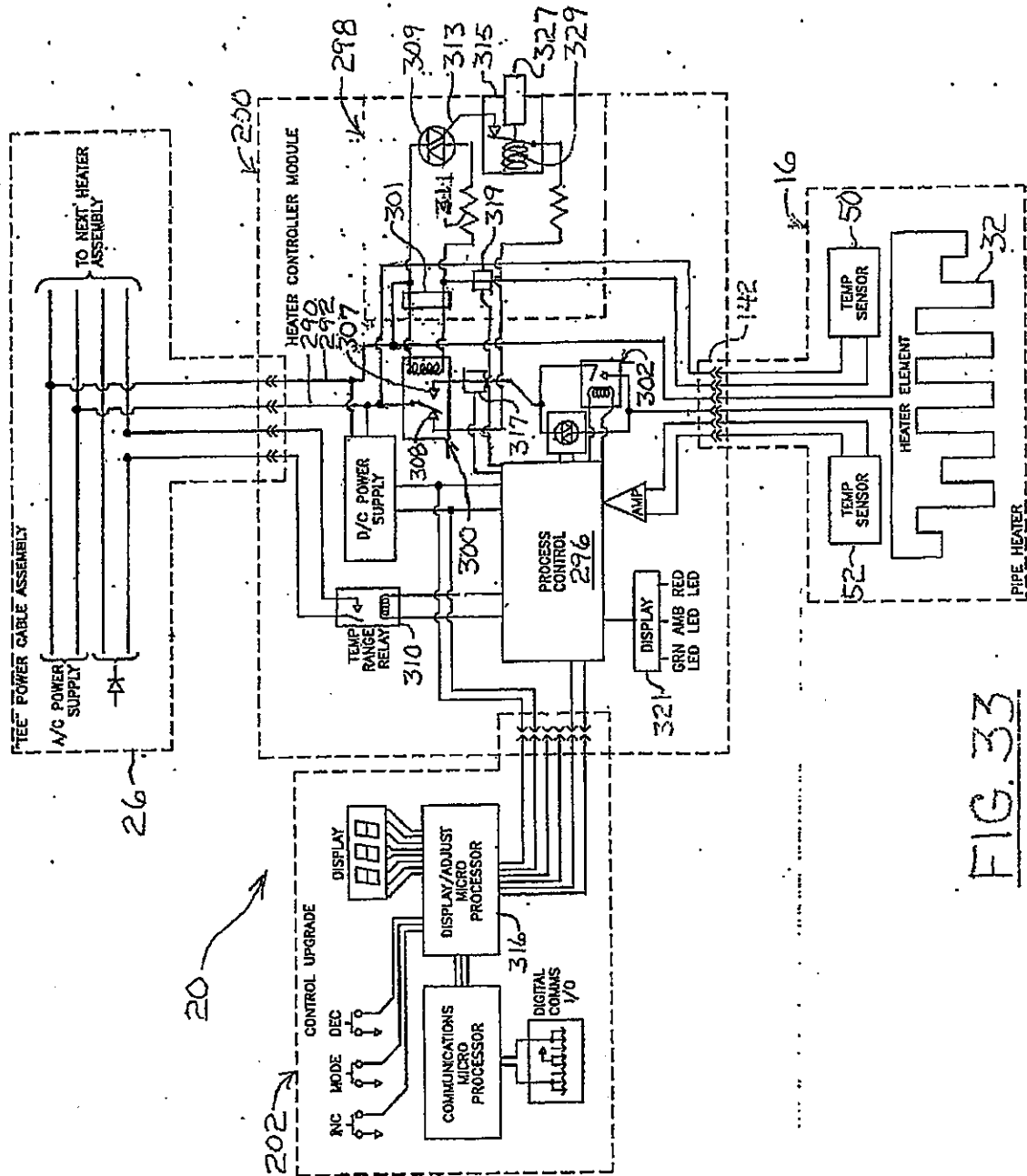


FIG. 32



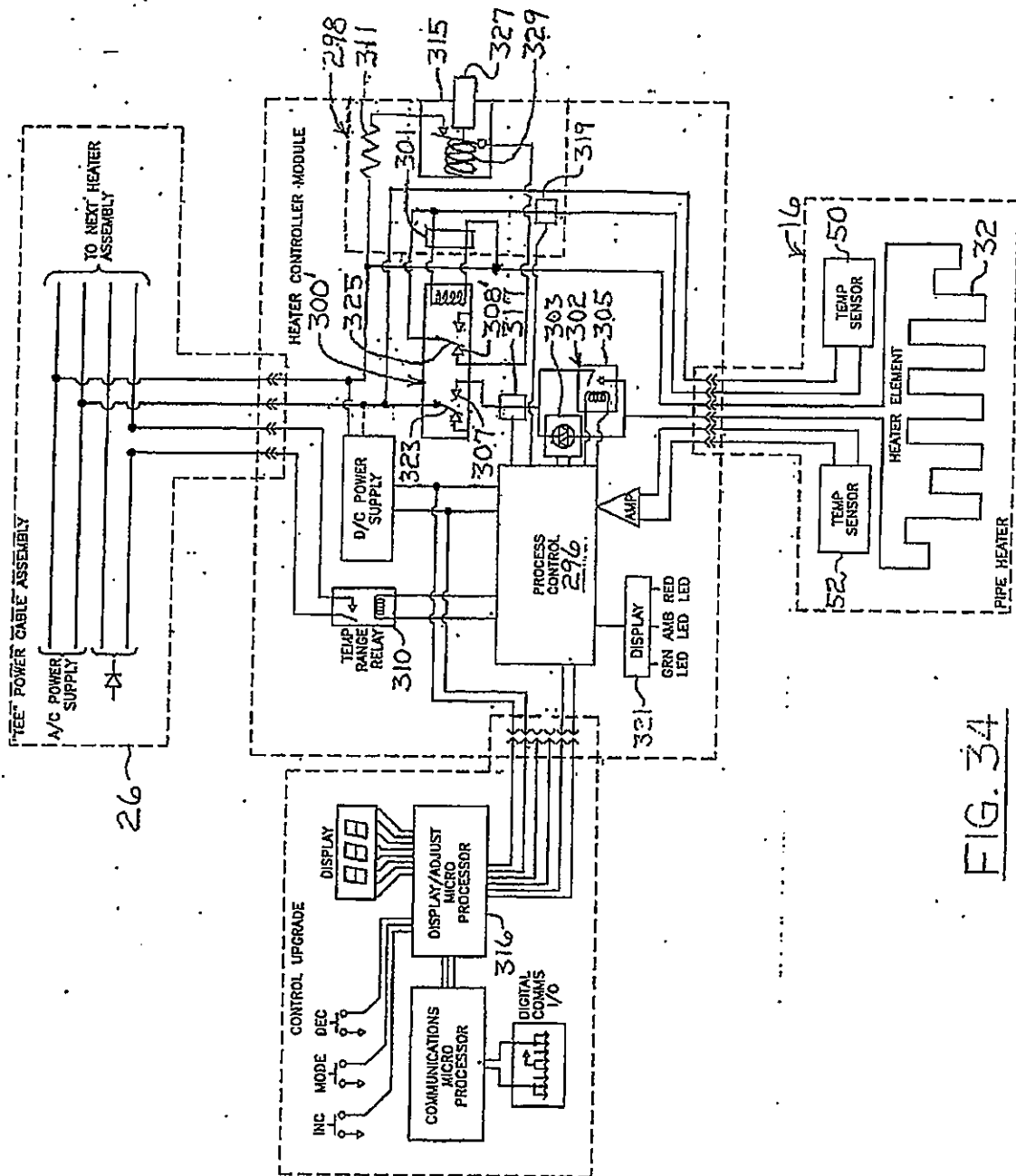


FIG. 34

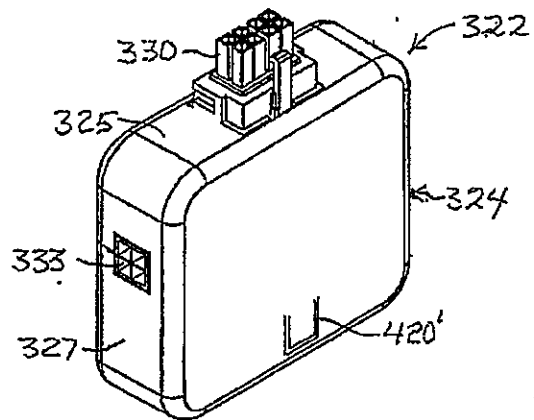


FIG. 35

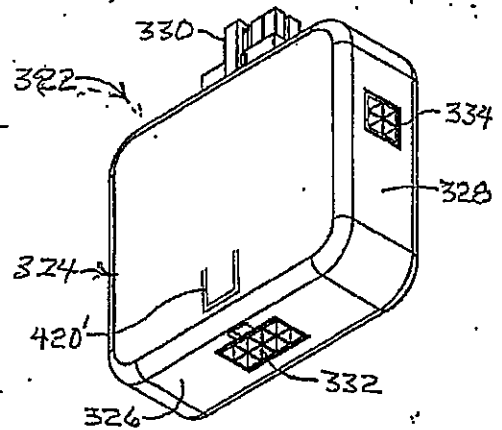


FIG. 36

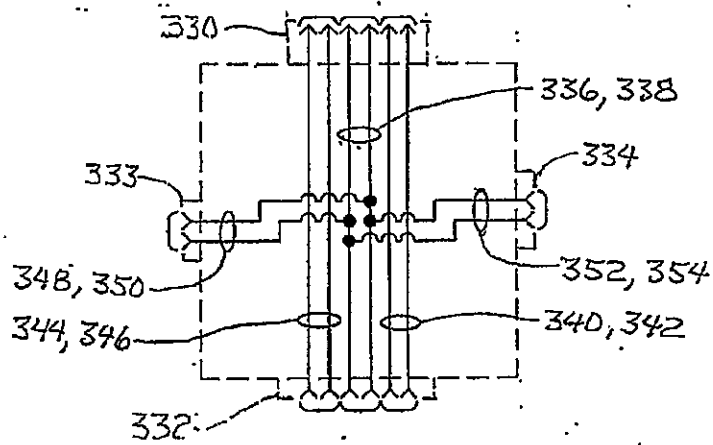
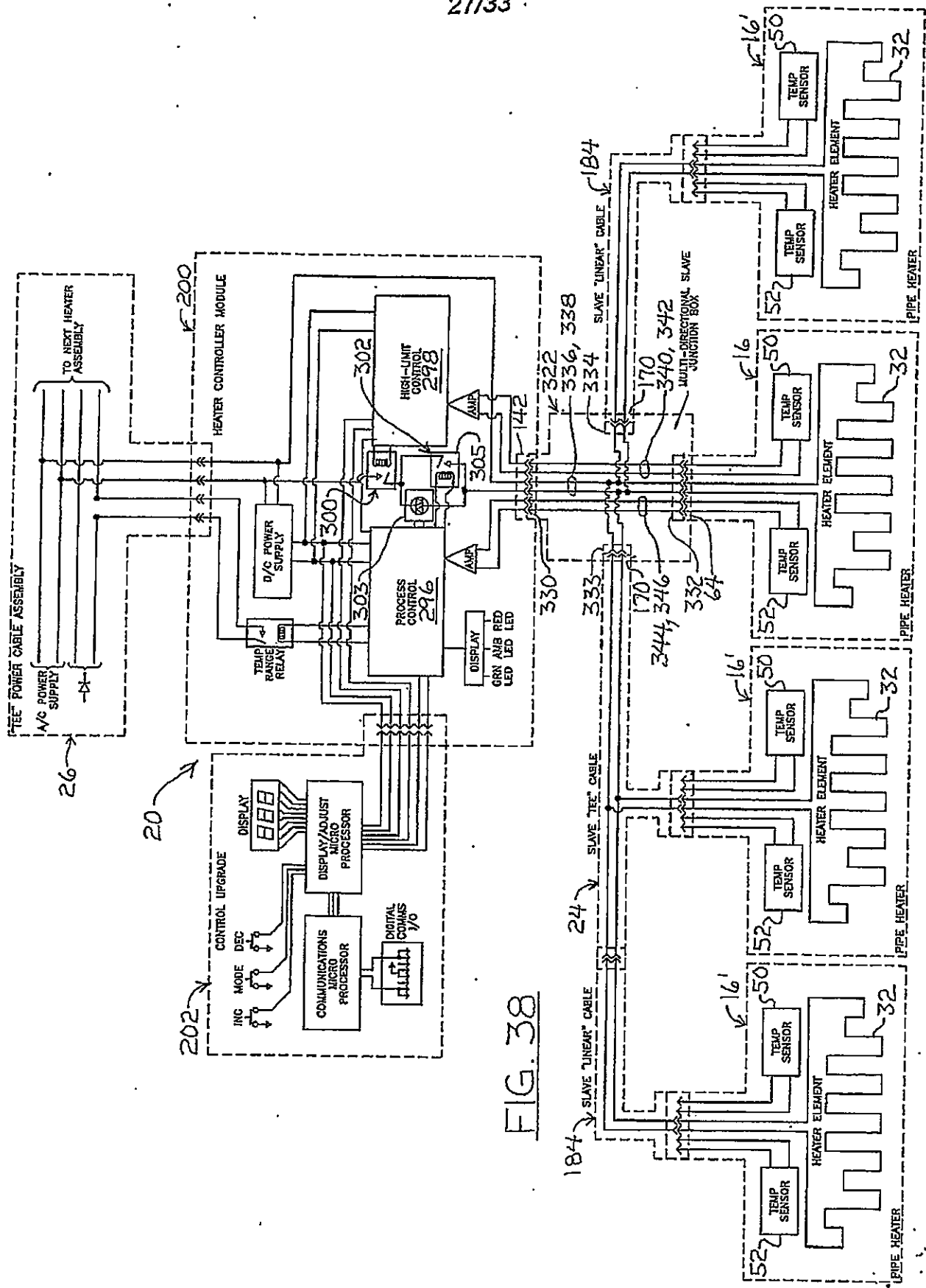


FIG. 37



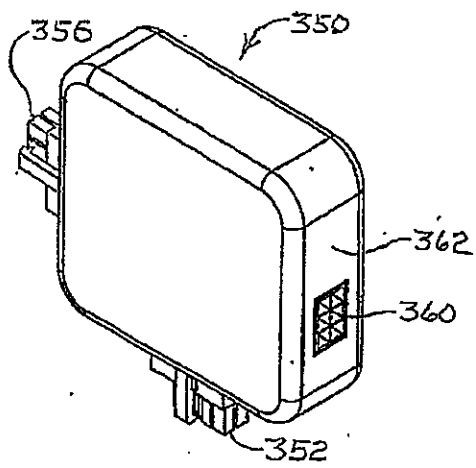


FIG. 39

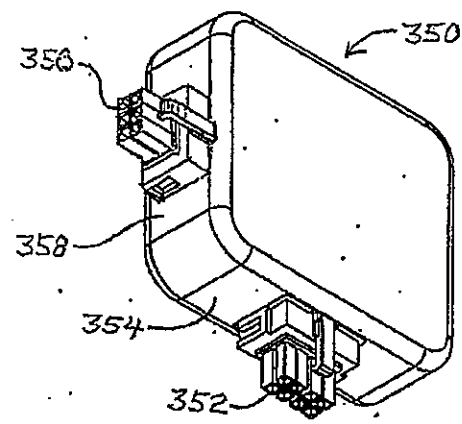


FIG. 40

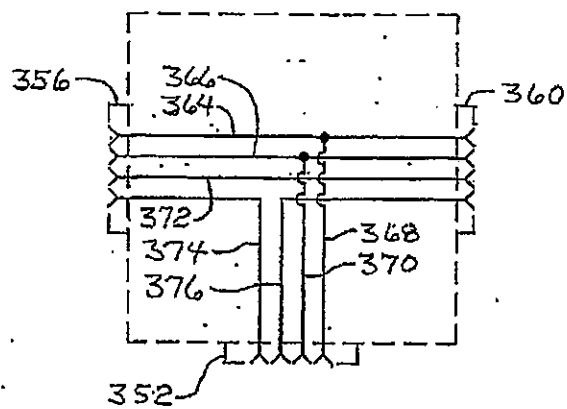


FIG. 41

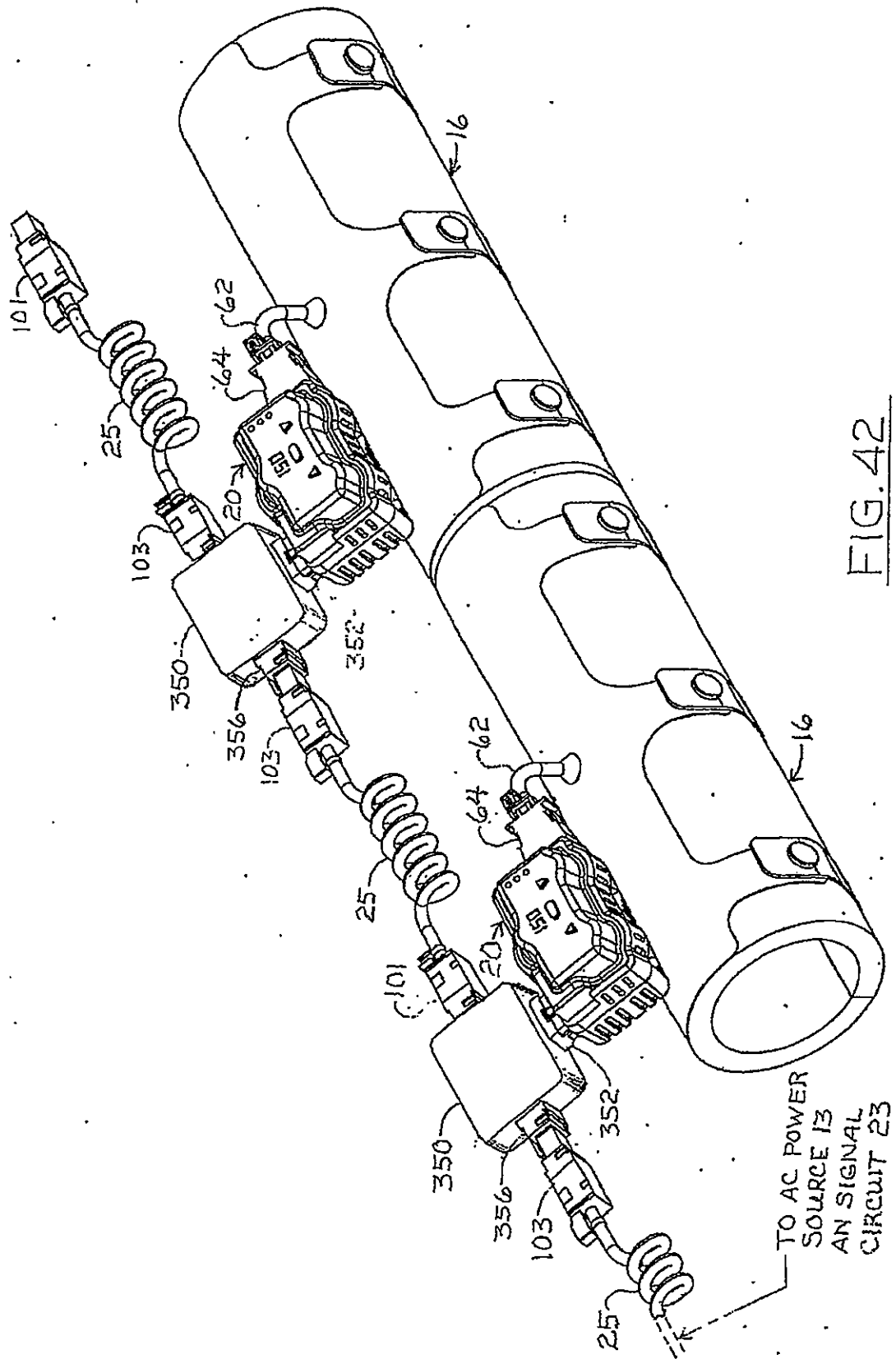


FIG. 42

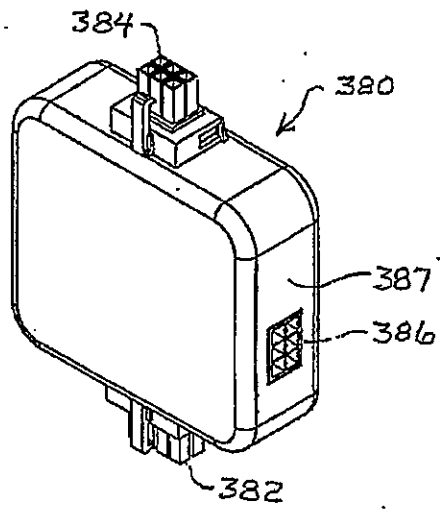


FIG. 43

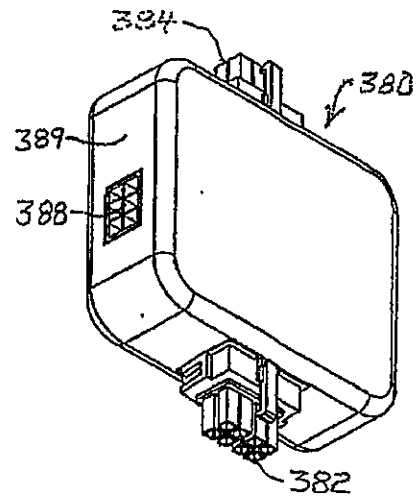


FIG. 44

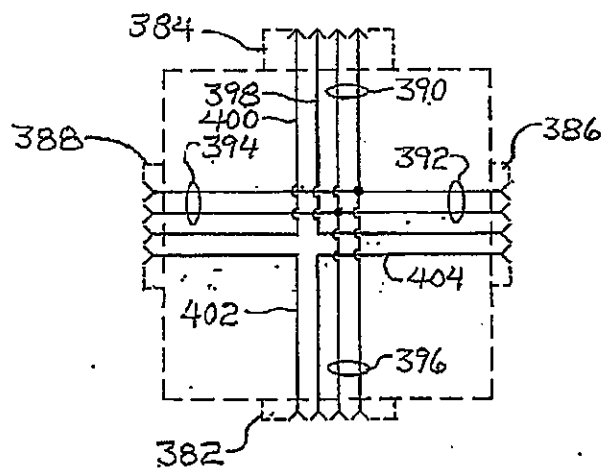


FIG. 45

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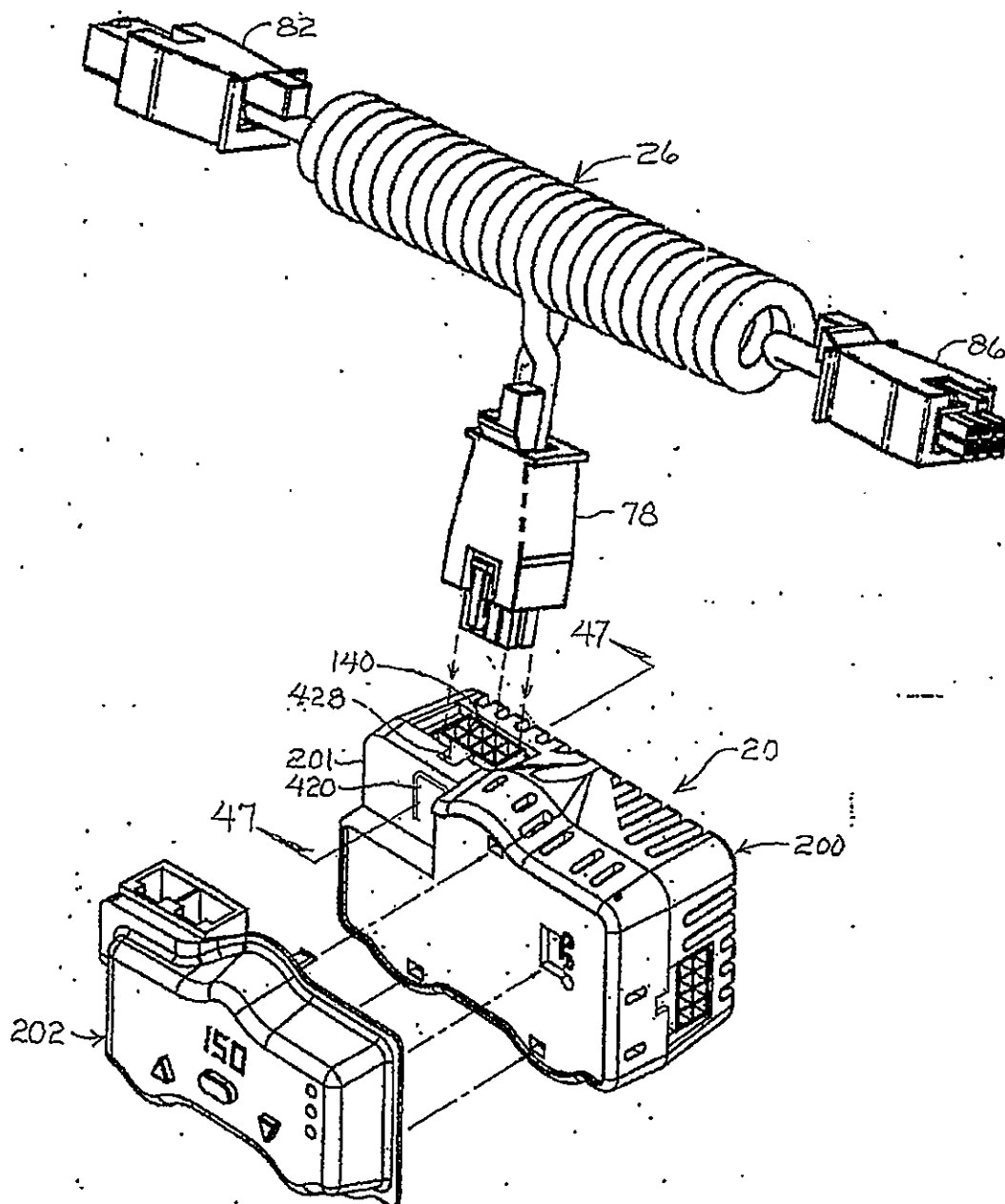


FIG. 46

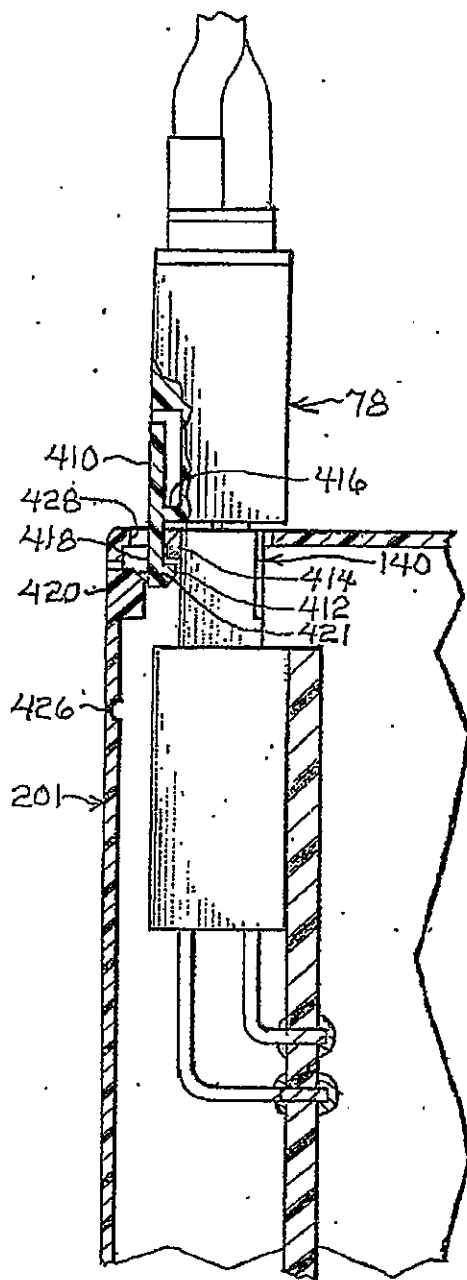


FIG. 47

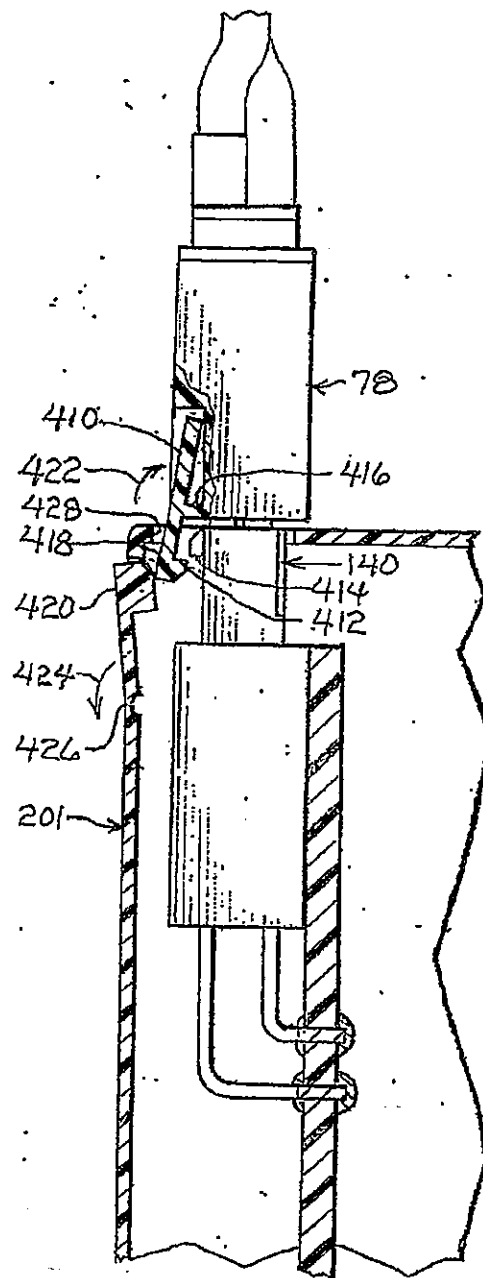


FIG. 48

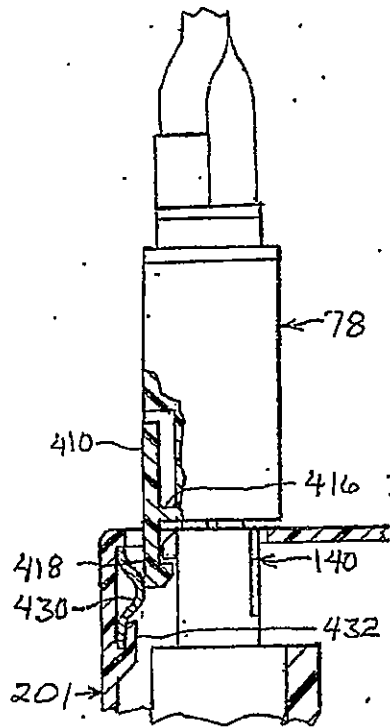


FIG. 49

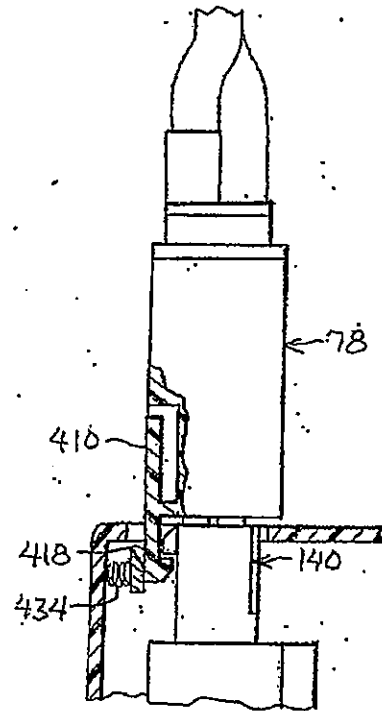


FIG. 50

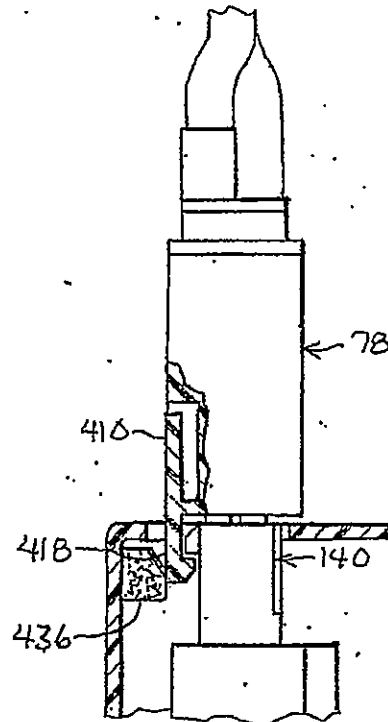


FIG. 51