

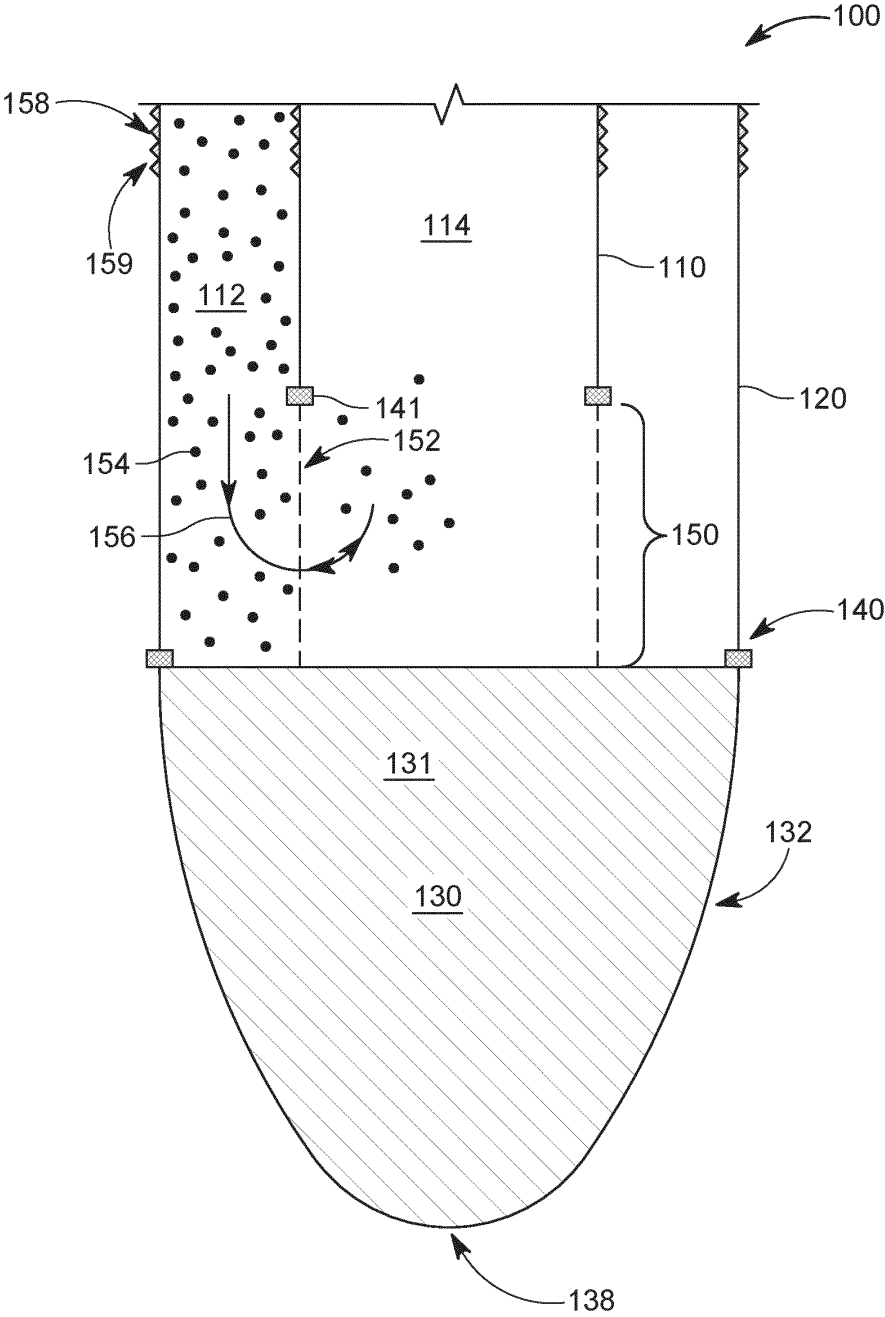


FIG. 1

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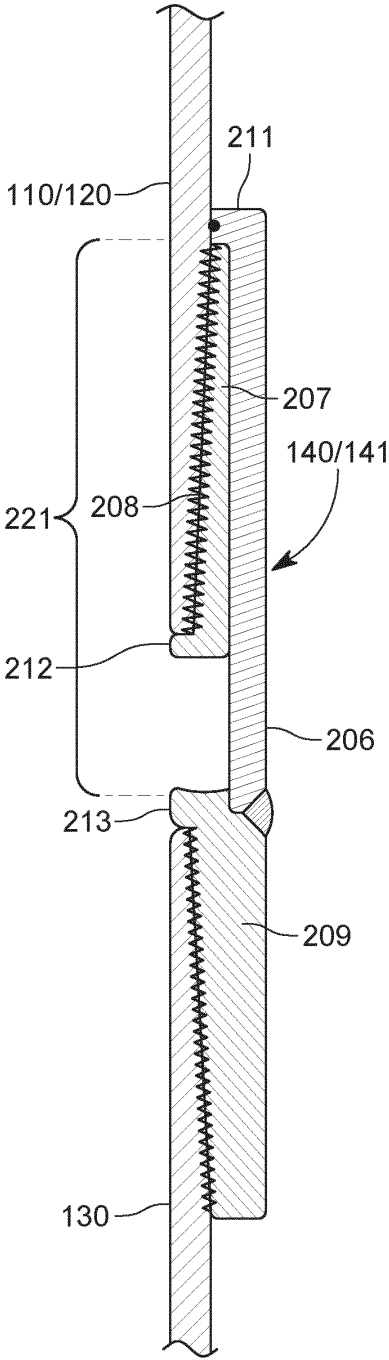


FIG. 2A

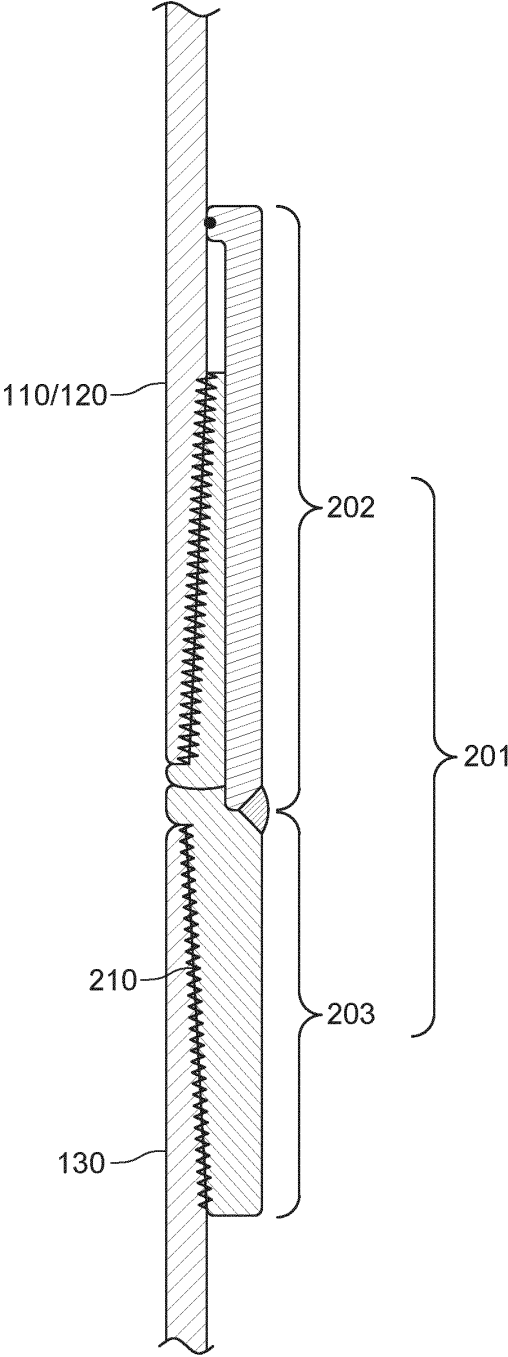


FIG. 2B

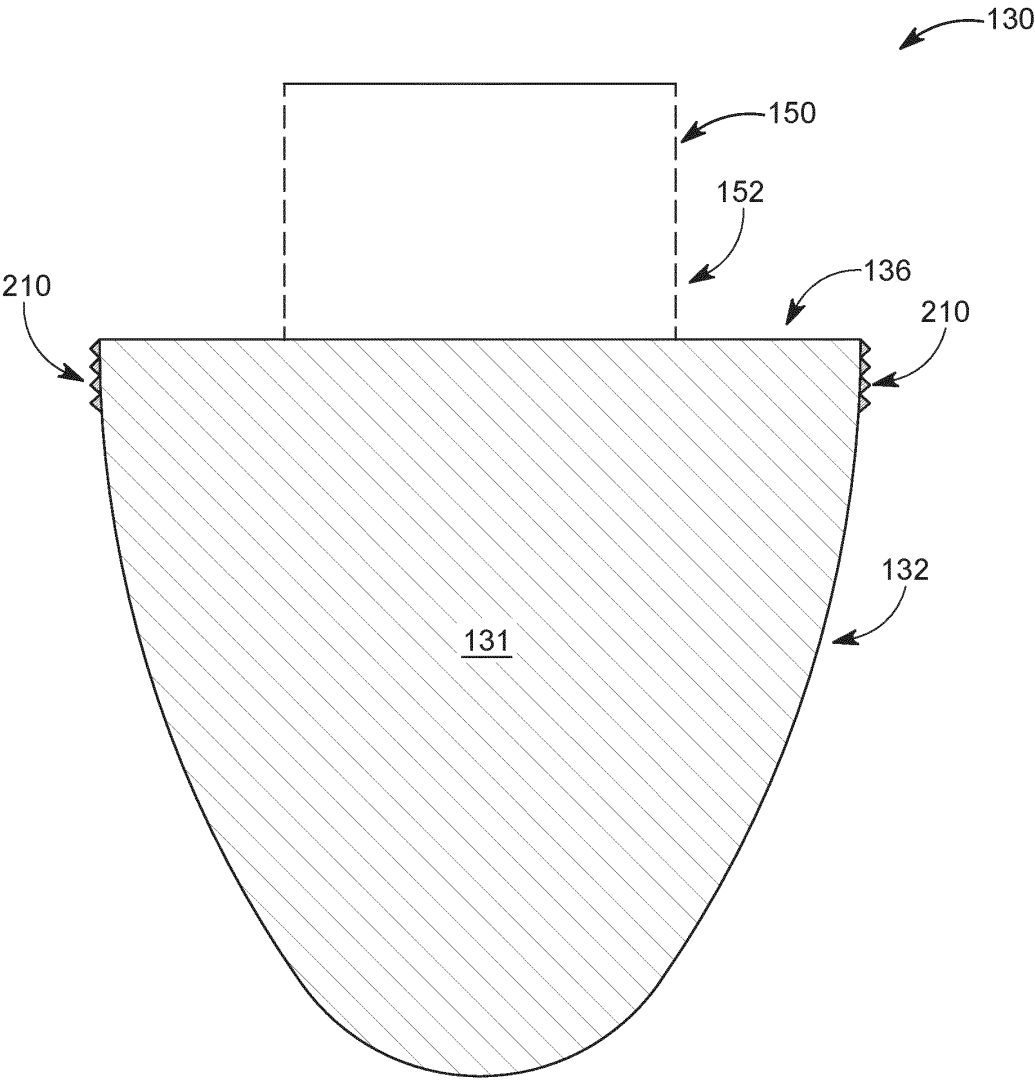


FIG. 3A

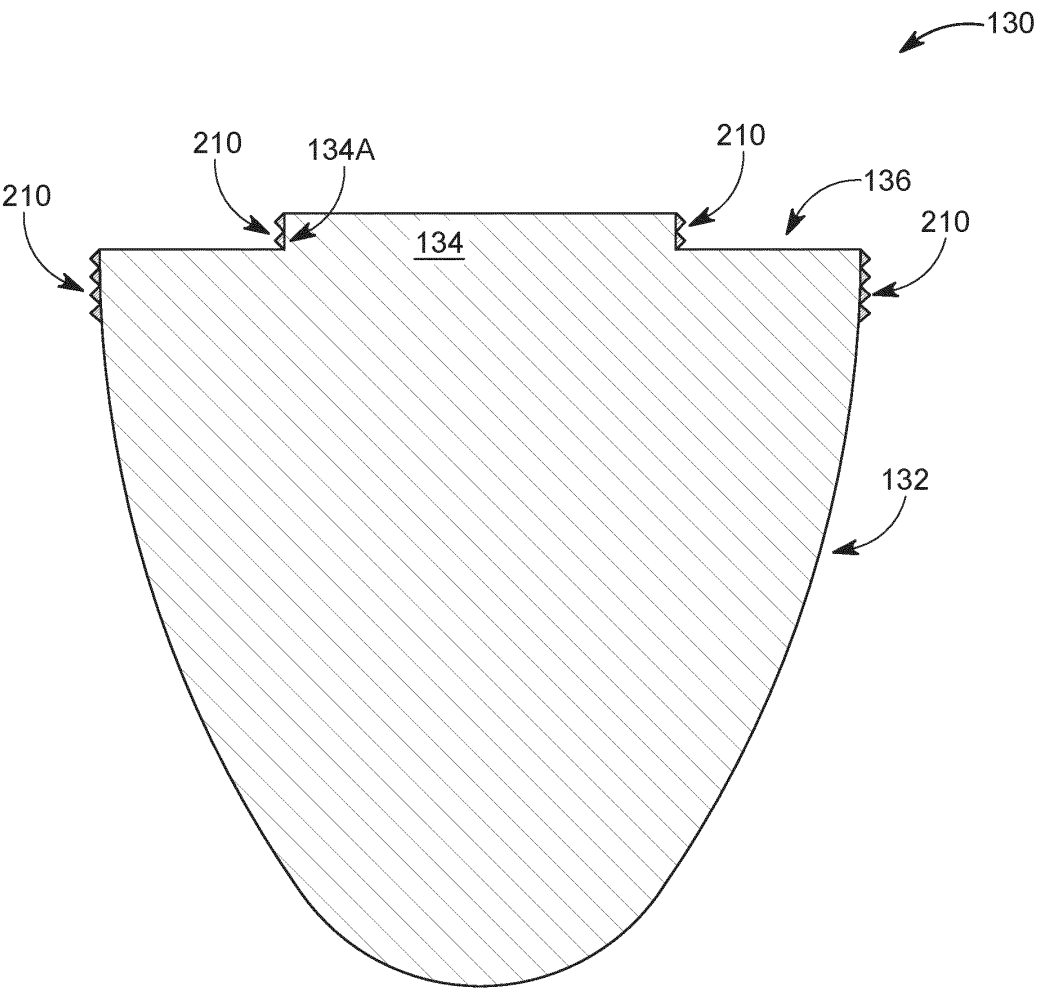


FIG. 3B

| Alloy name | Temp. max (°C) | Melting range (°C) | Thermal conductivity |                |                    | Nickel + Cobalt content | Chromium content | Tensile strength |            |             |
|------------|----------------|--------------------|----------------------|----------------|--------------------|-------------------------|------------------|------------------|------------|-------------|
|            |                |                    | [Btu/in./hr /sqft°F] | [W/(m. K)]     | Temp. [°C]         |                         |                  | [ksi]            | [MPa]      | Temp [°C]   |
| 800        | 899            | 1357-1385          | 181<br>214           | 26<br>31       | 870<br>980         | 30-35%                  | 19-23%           | 44.5             | 307        | 760         |
| 600        | >1095          | 1354-1413          | 200                  | 29             | 870                | 72% min                 | 14-17%           | 95.6<br>84.5     | 660<br>583 | 870<br>1150 |
| 601        |                | 1360-1411          | 178<br>190<br>203    | 26<br>27<br>29 | 870<br>980<br>1090 | 58-63%                  | 21-25%           | 91               | 627        | 540         |
| 625        | 982            | 2350-2460          | 158<br>175           | 23<br>25       | 870<br>980         | 58% min                 | 20-23%           | 76.7             | 529        | 870         |
| X-750      | 980            | 1393-1427          | 164                  | 24             | 870                | 70% min                 | 14-17%           | 77.3             | 533        | 815         |

FIG. 4

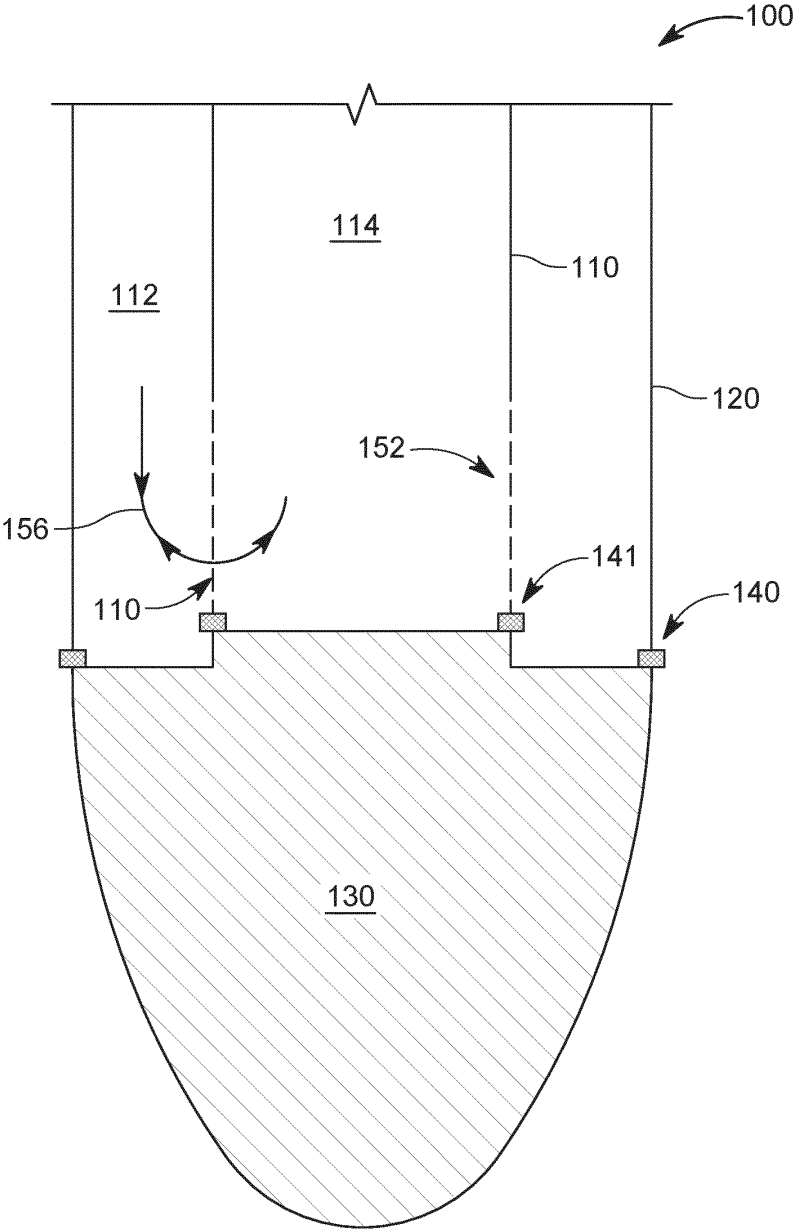


FIG. 5

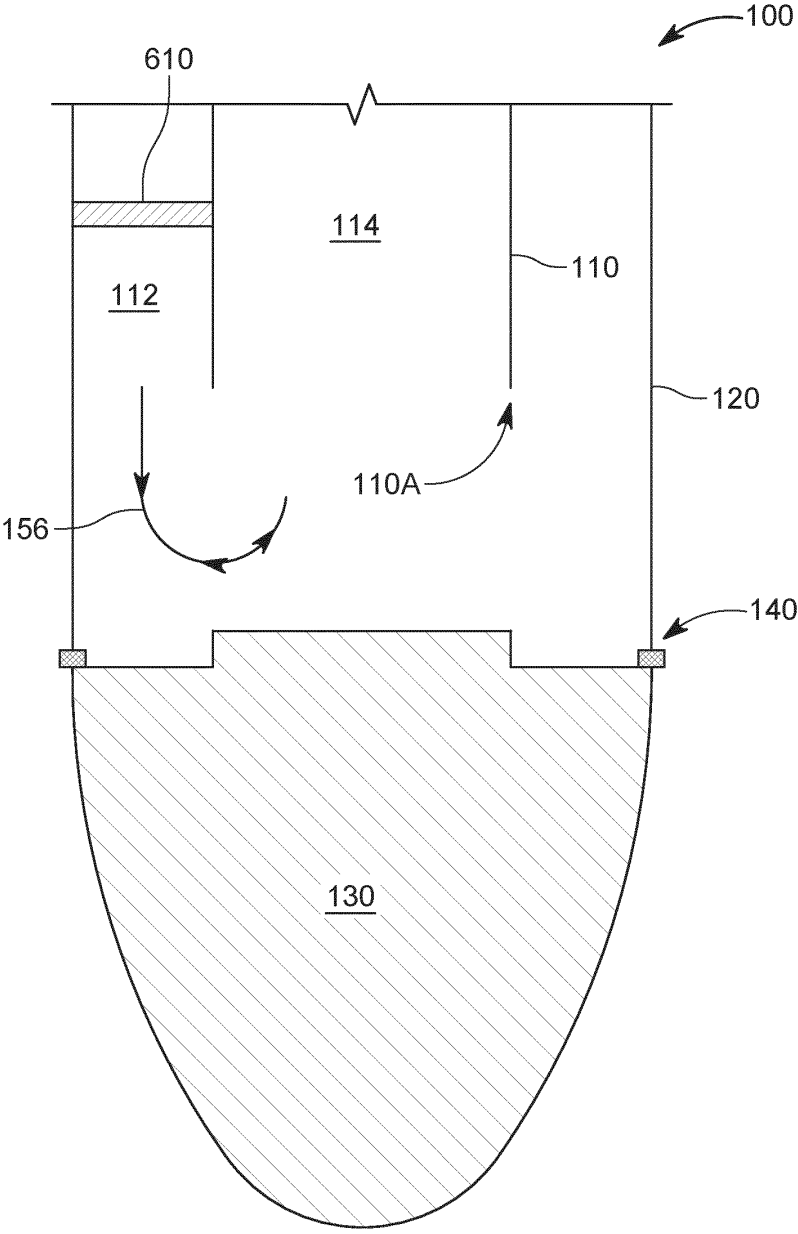


FIG. 6

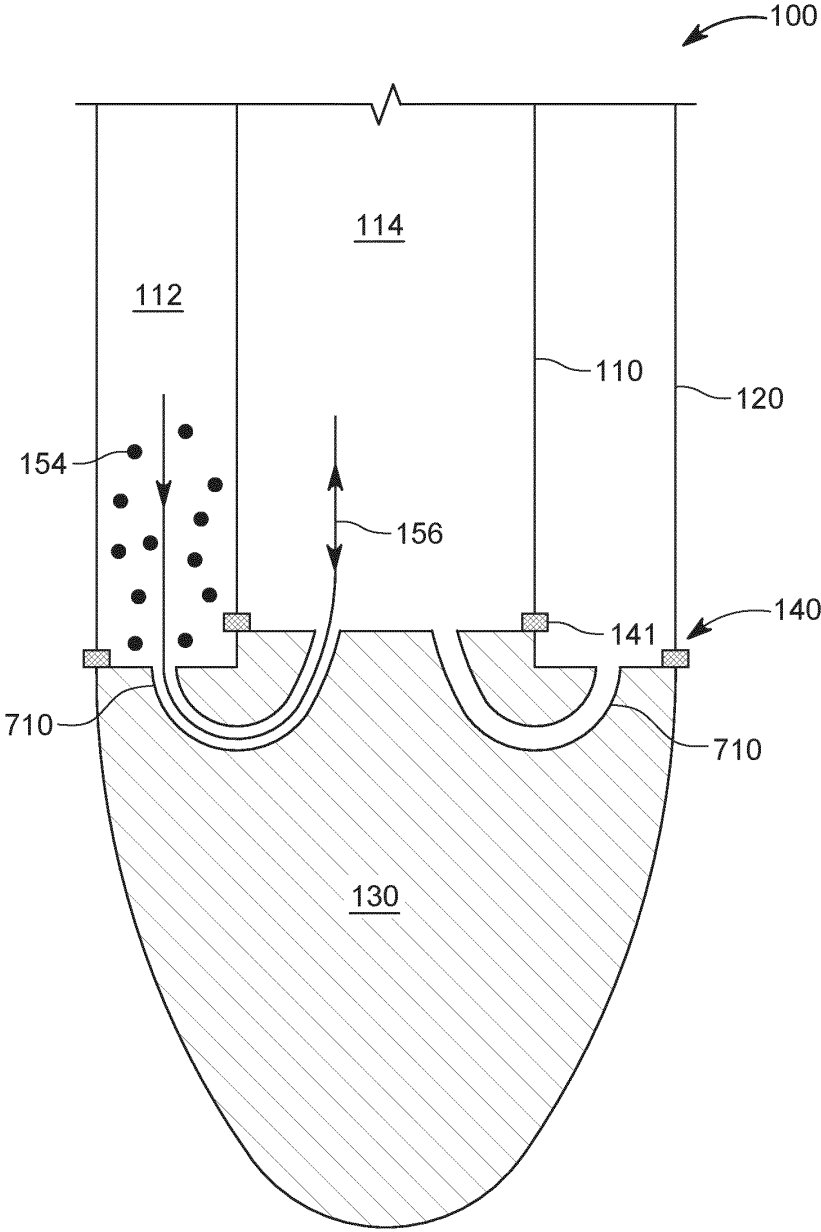


FIG. 7

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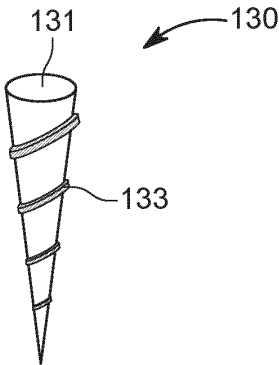


FIG. 8A

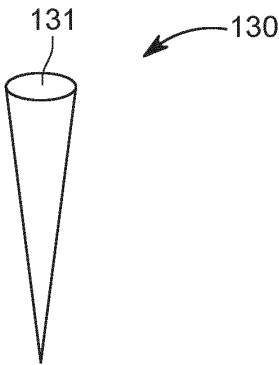


FIG. 8B

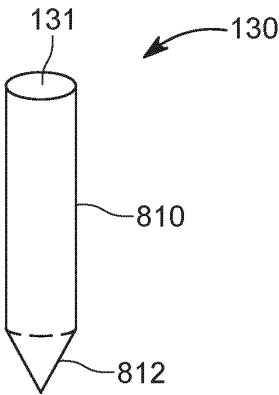


FIG. 8C

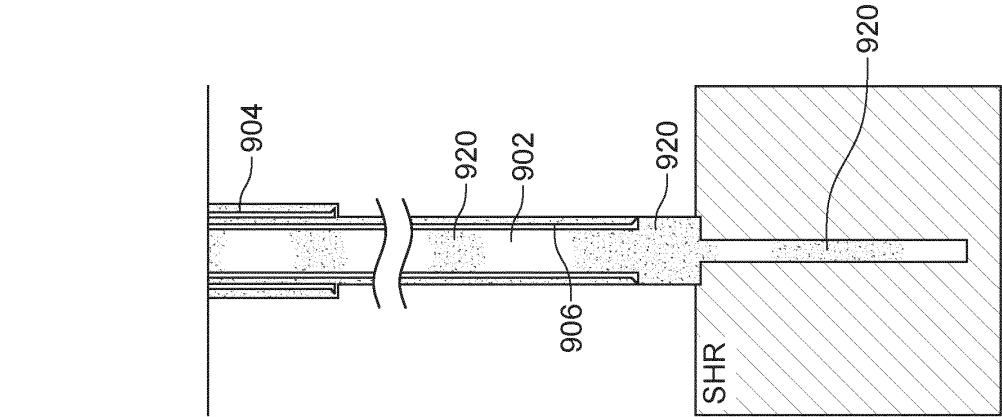


FIG. 9C

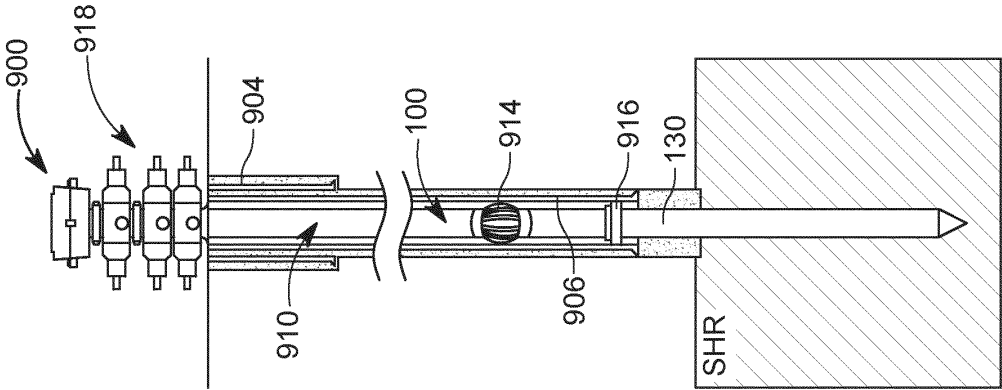


FIG. 9B

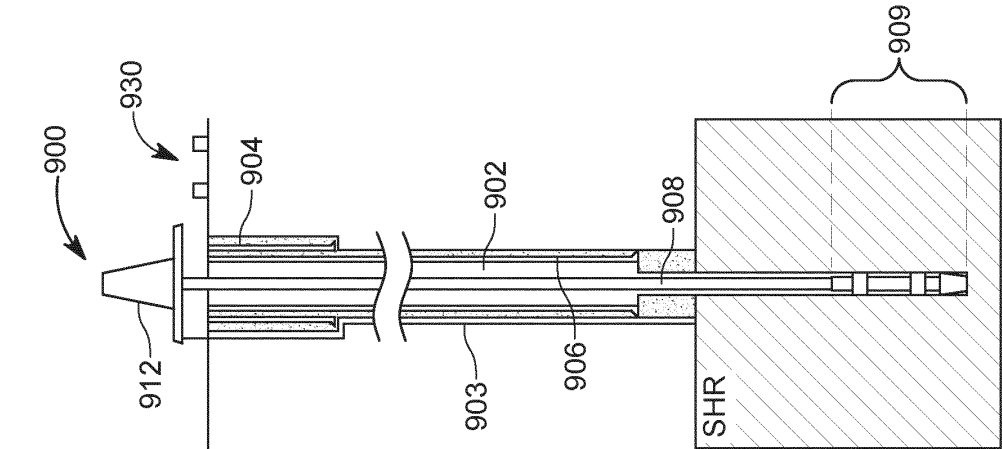


FIG. 9A

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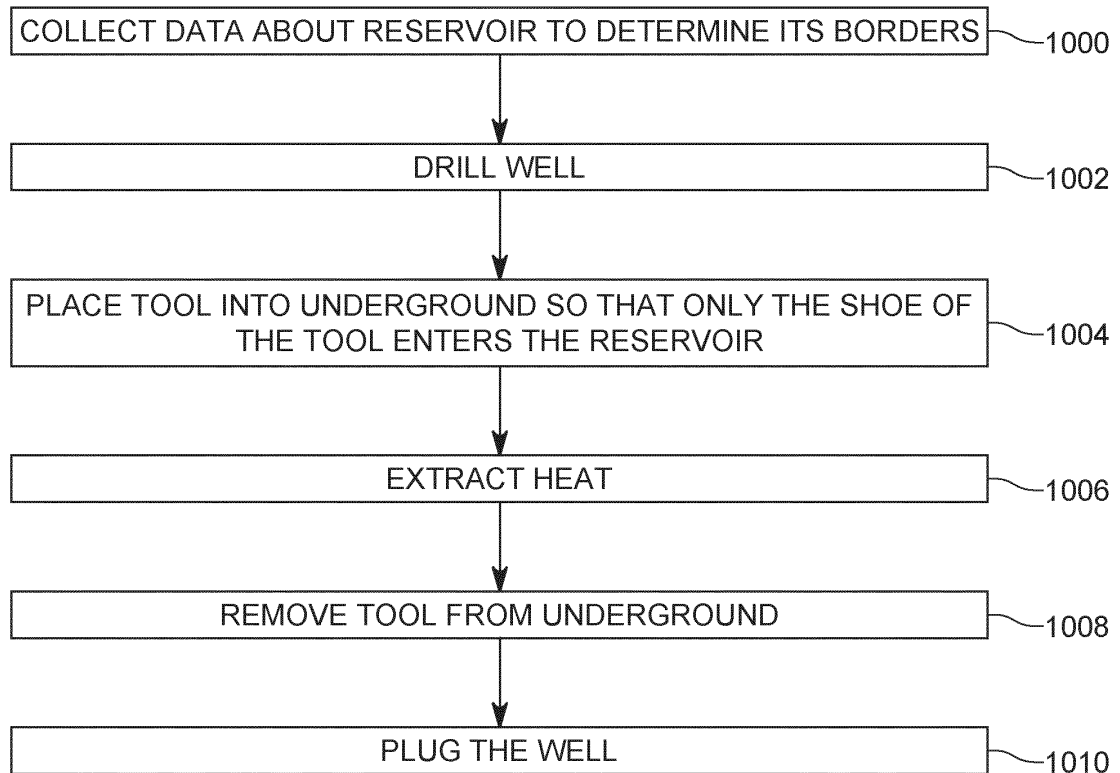


FIG. 10