

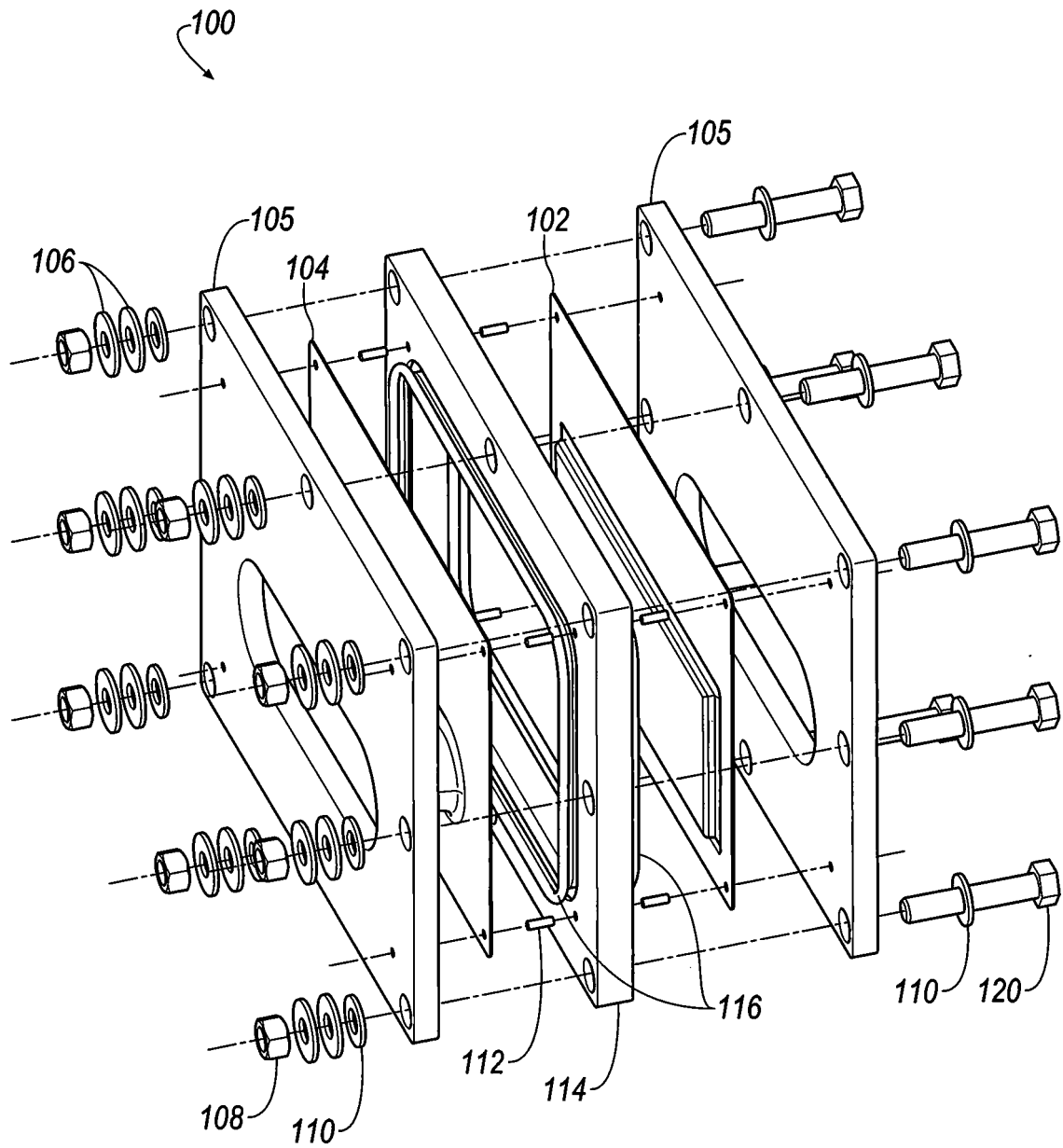


FIG. 1

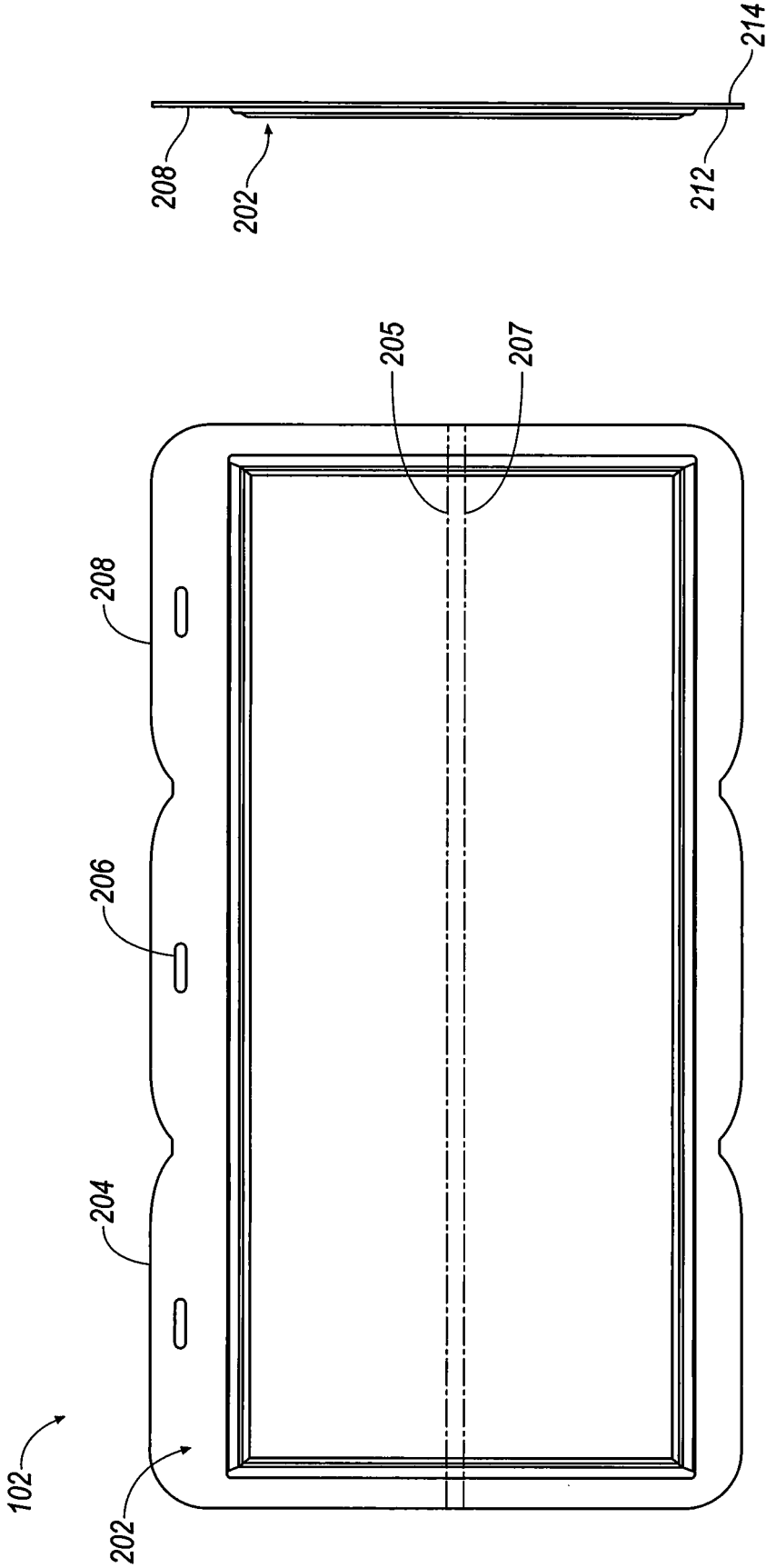


FIG. 2B

FIG. 2A

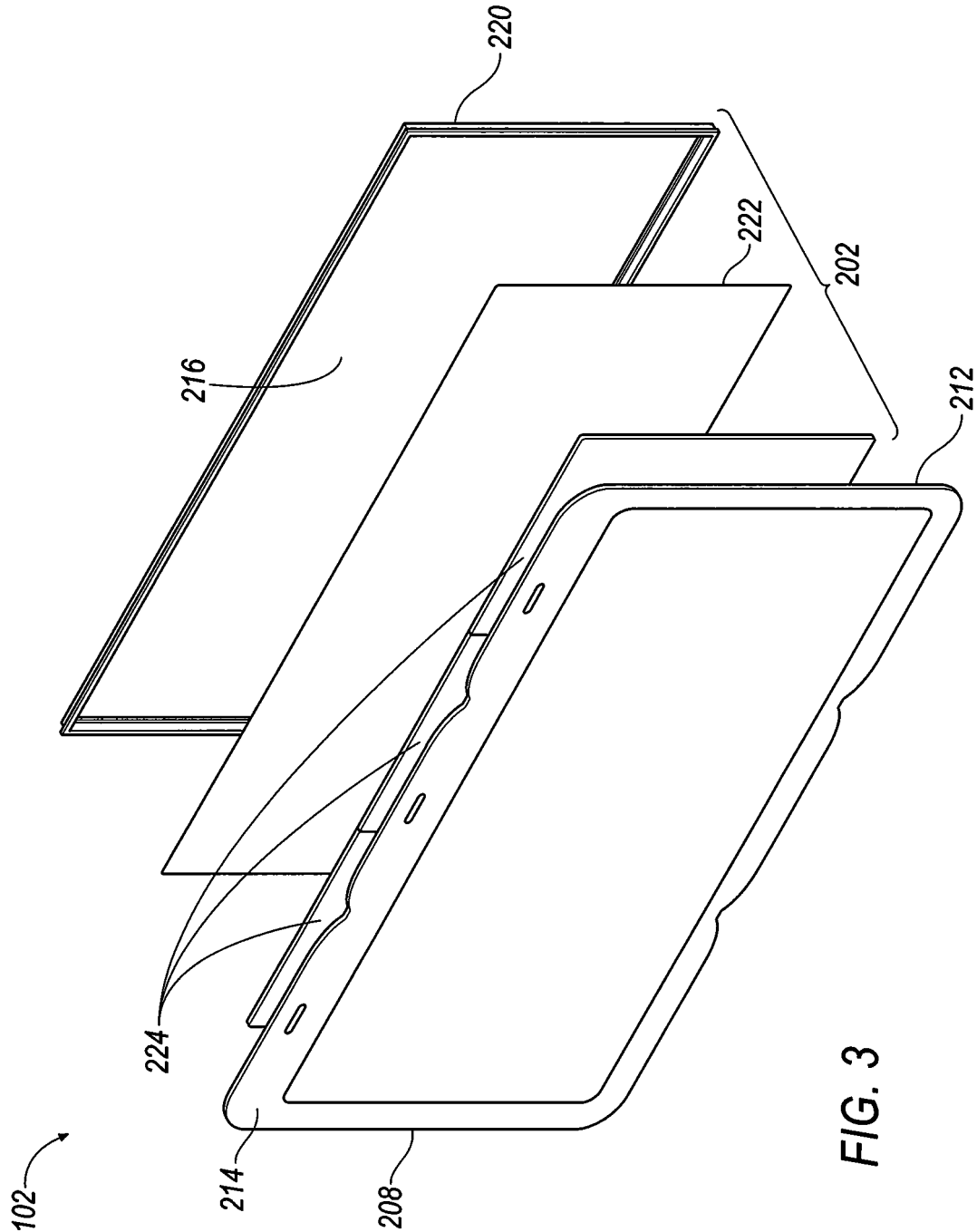


FIG. 3

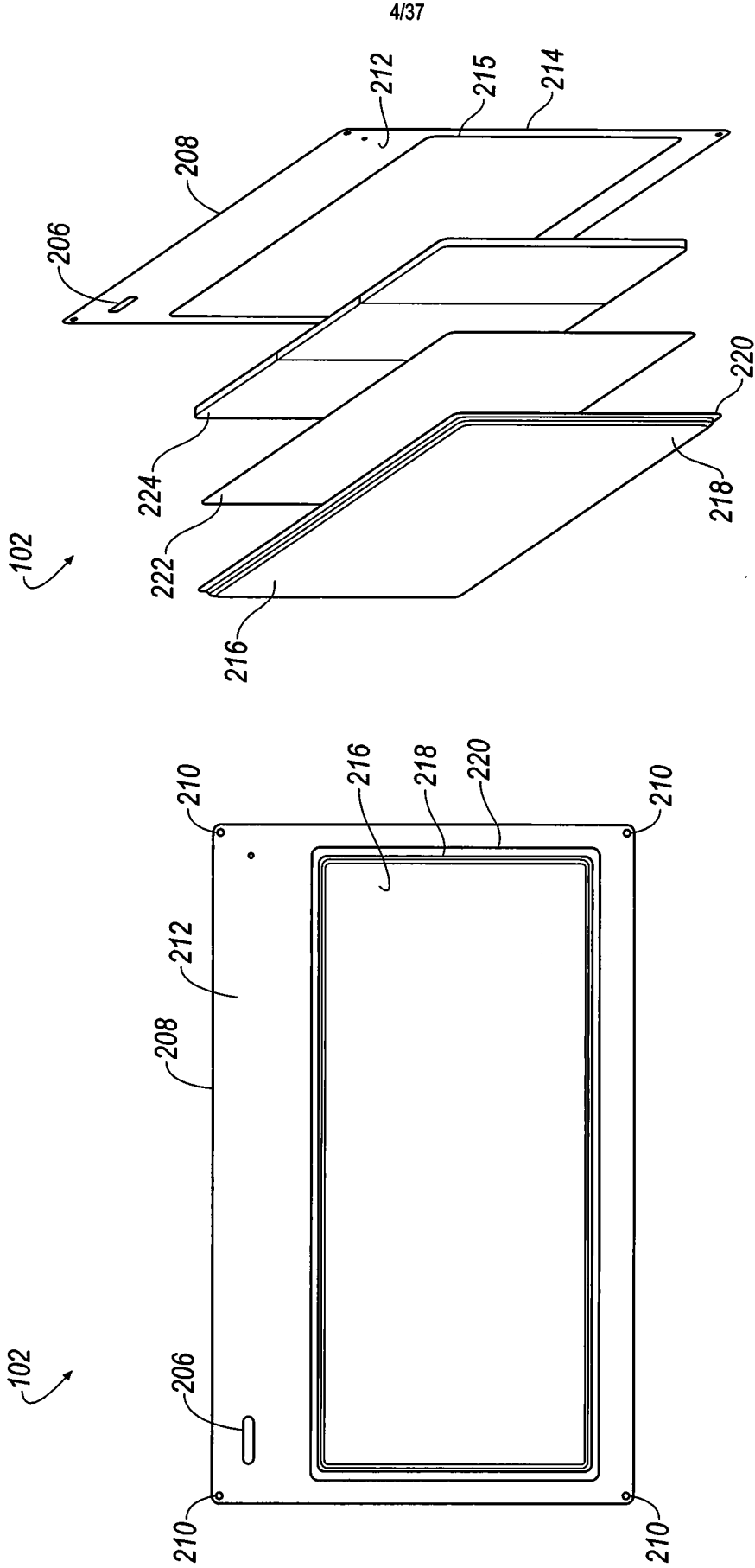


FIG. 4A

FIG. 4B

5/37

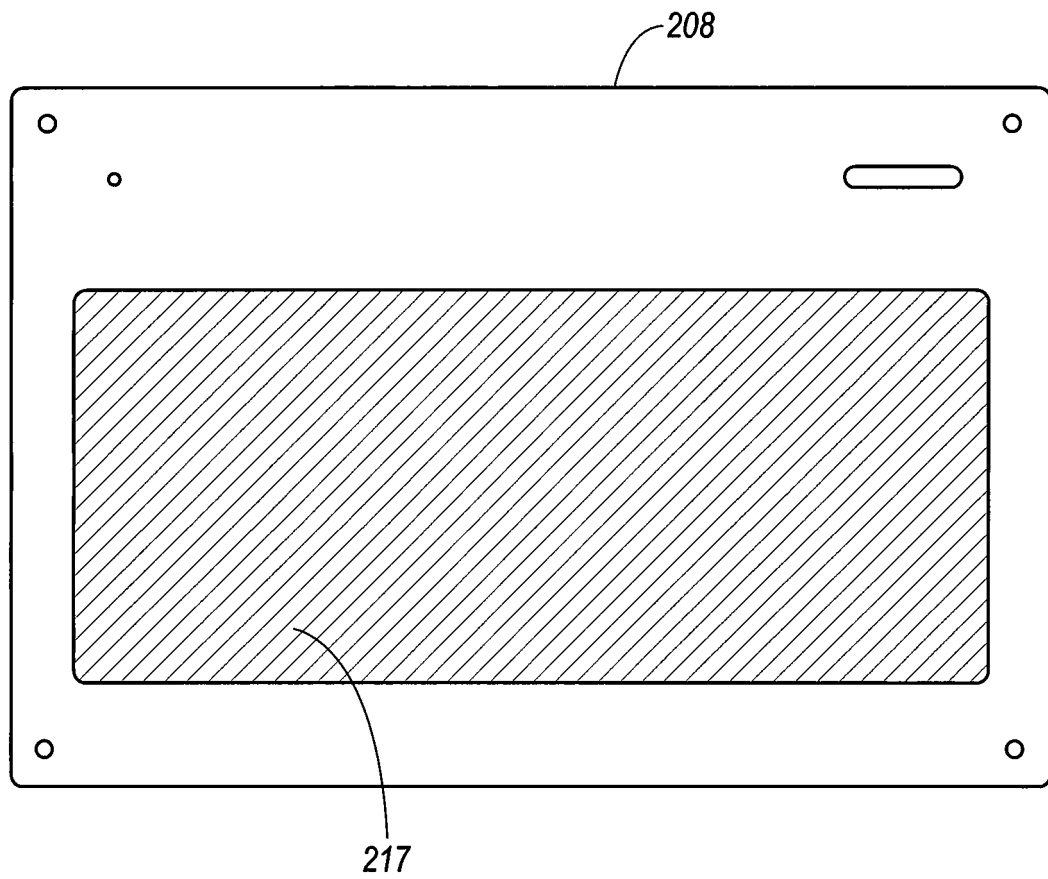


FIG. 5

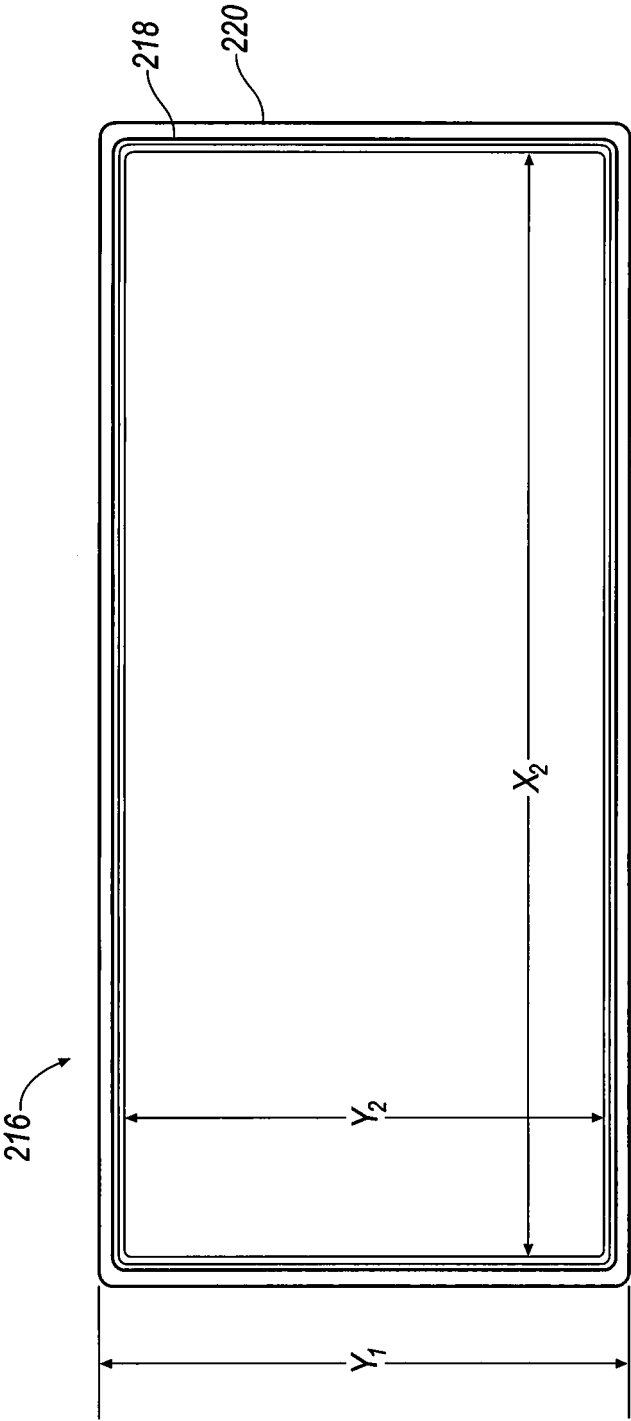


FIG. 6A

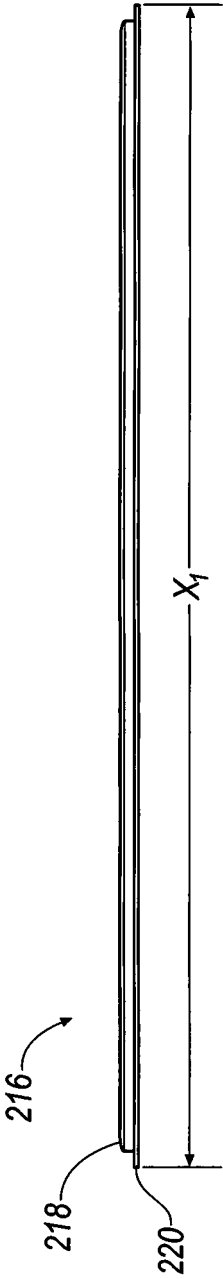


FIG. 6B

7/37

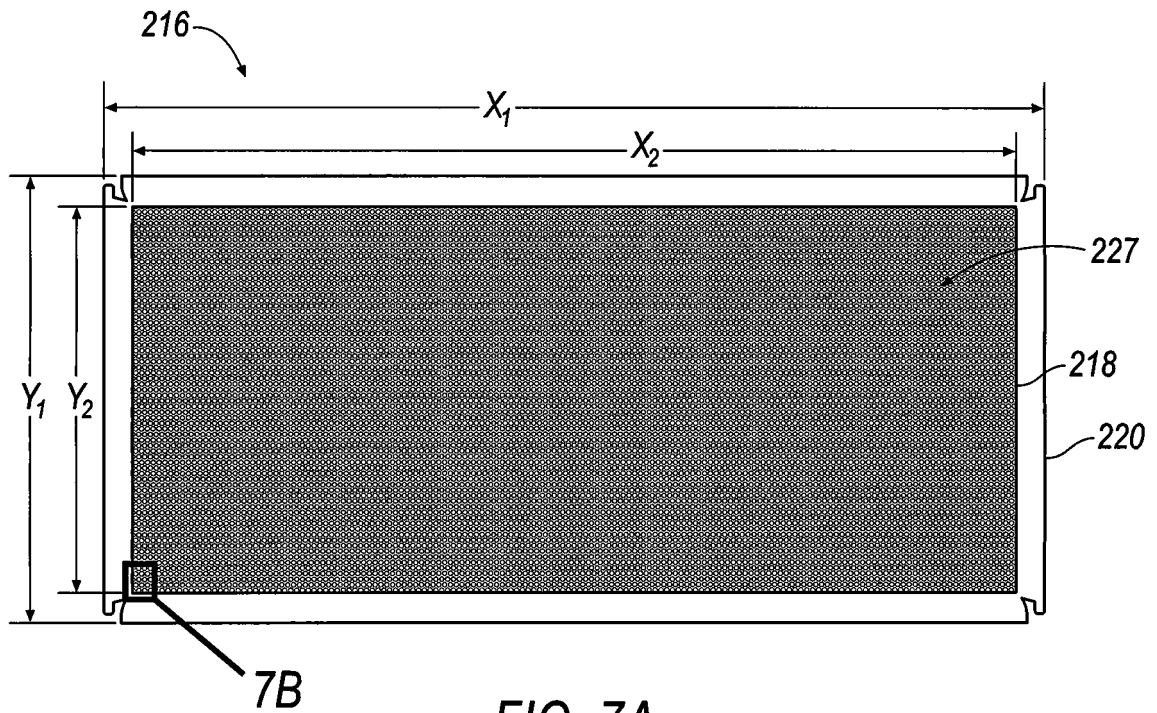


FIG. 7A

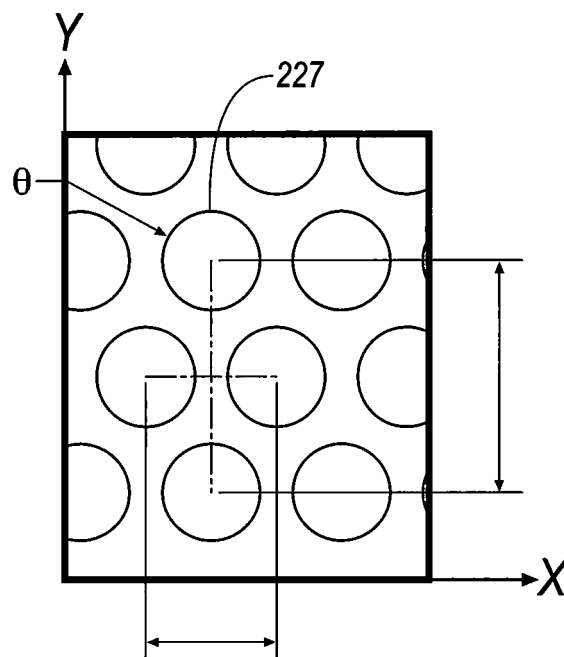


FIG. 7B

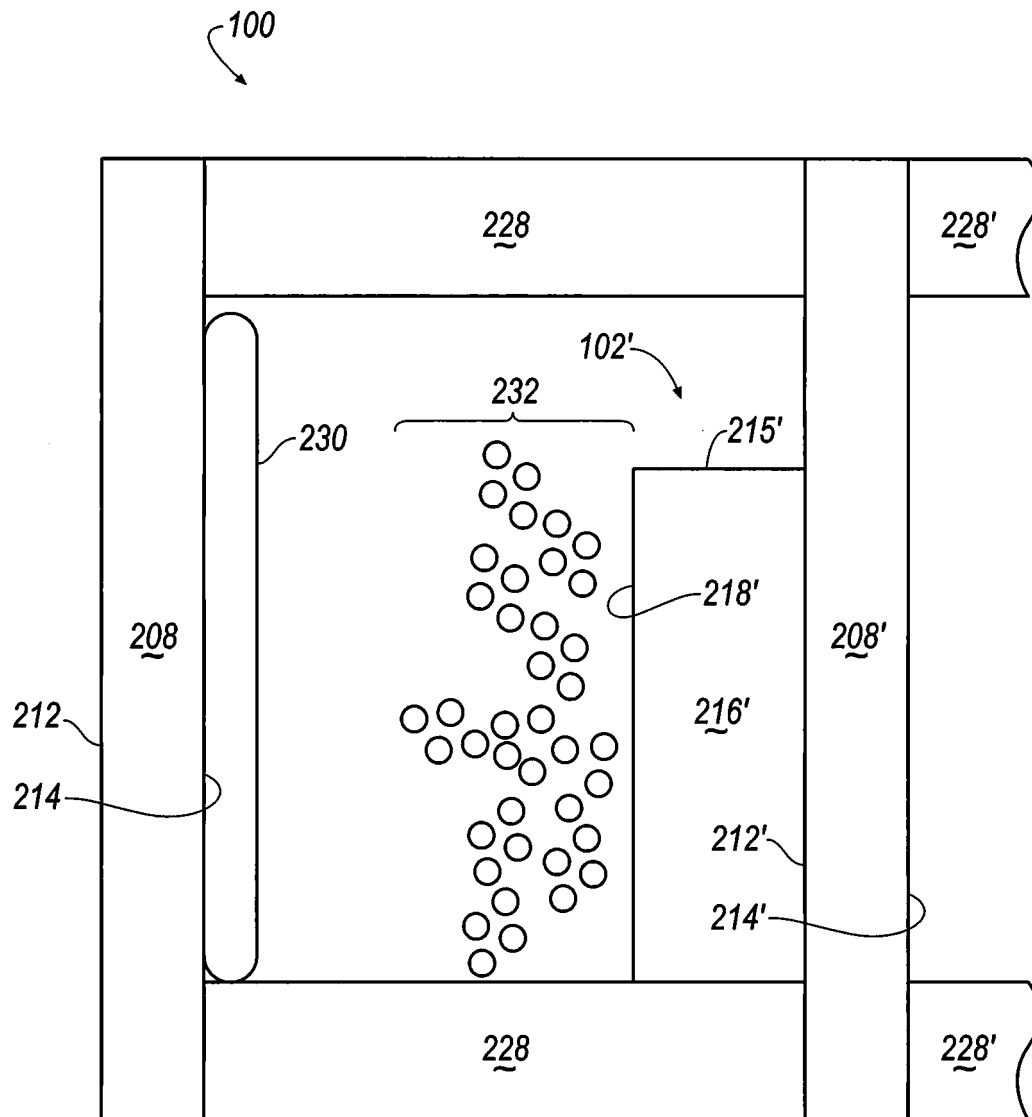
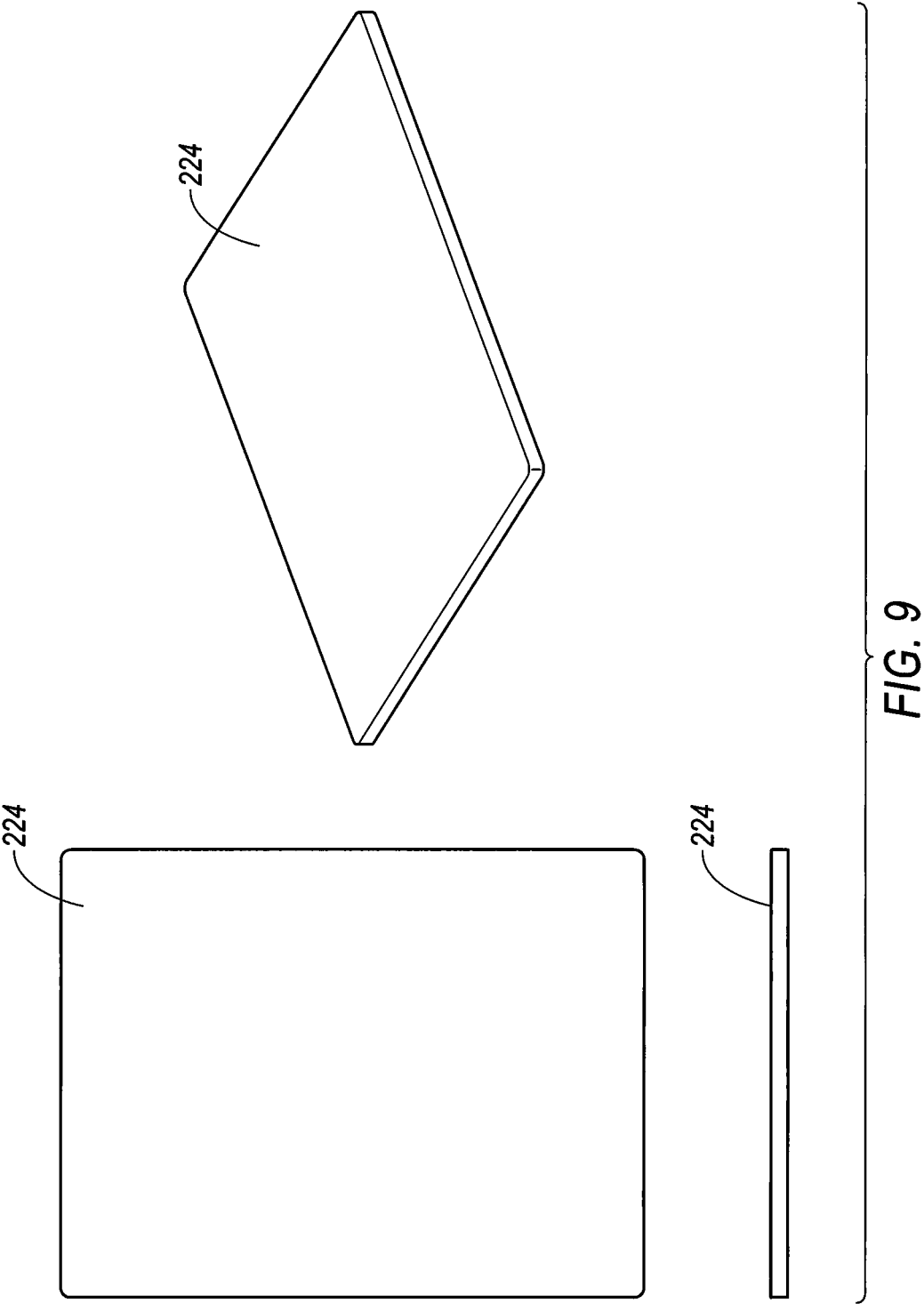


FIG. 8



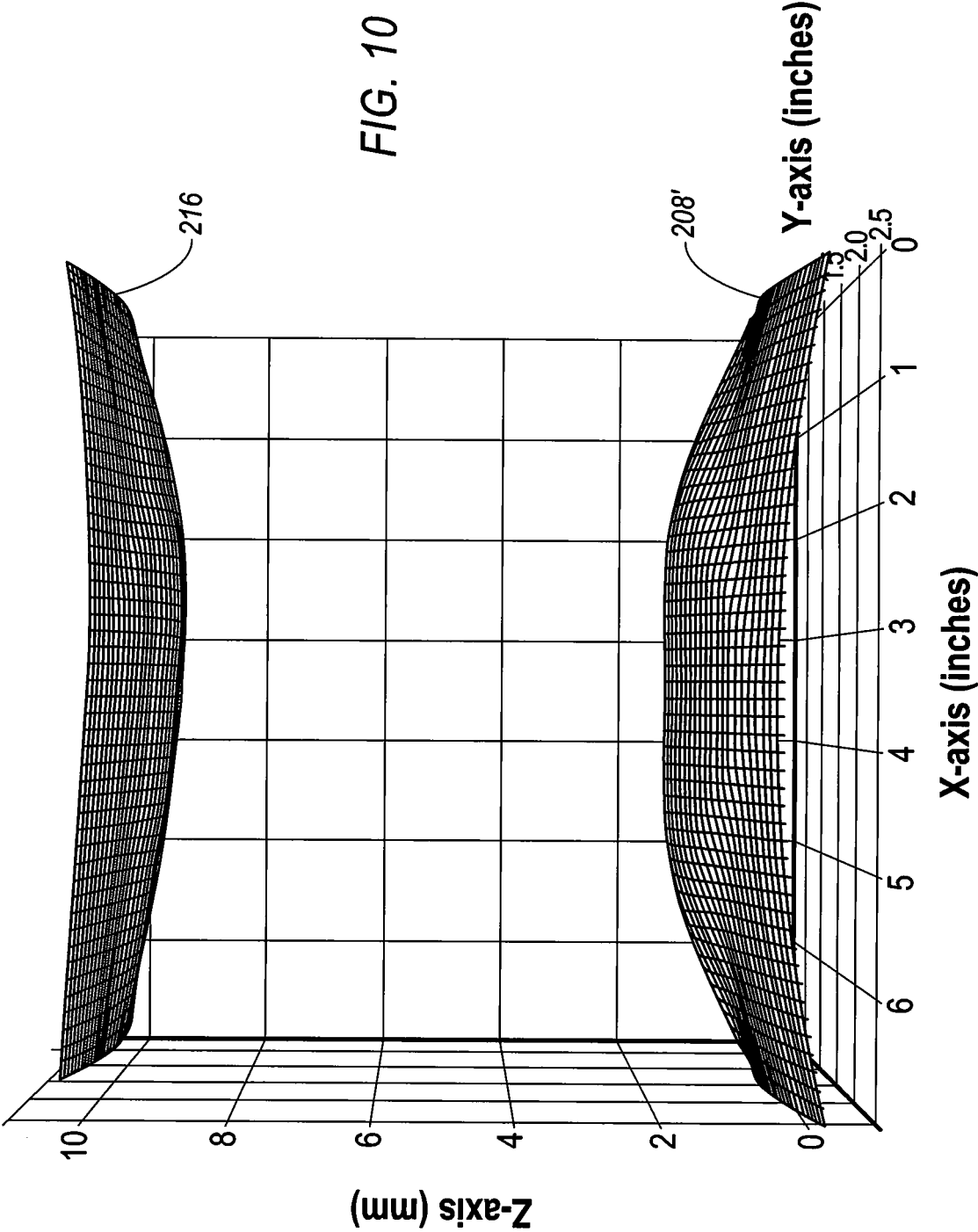
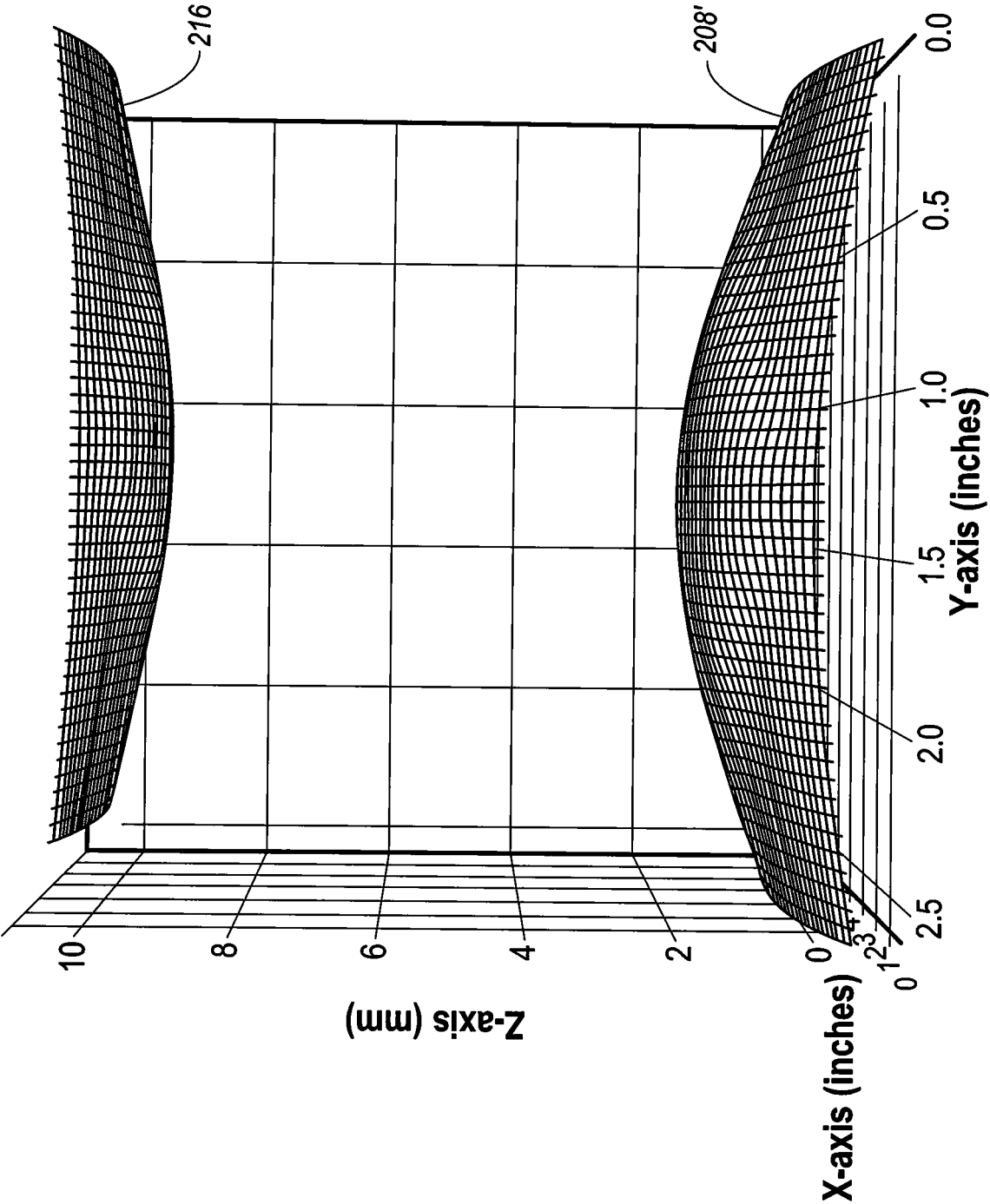


FIG. 11



12/37

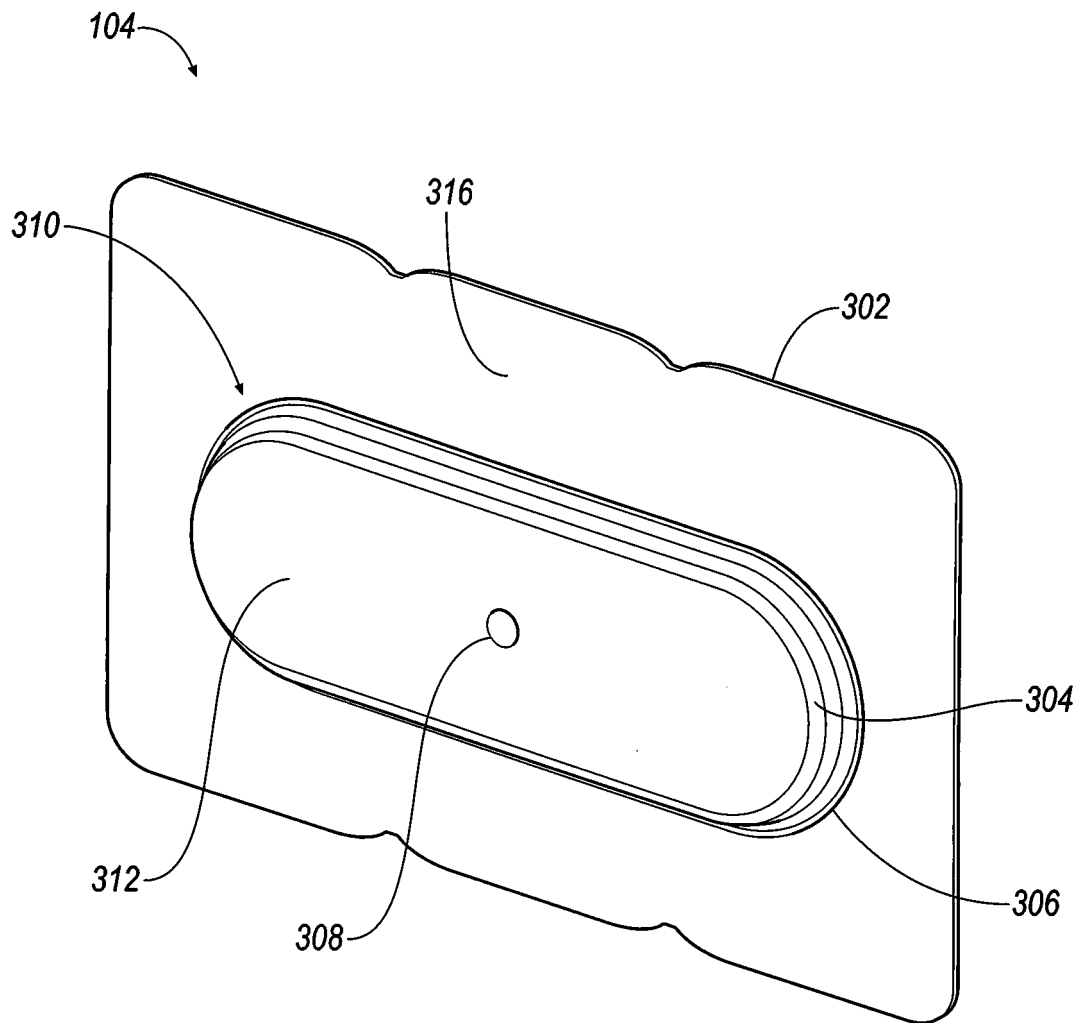


FIG. 12

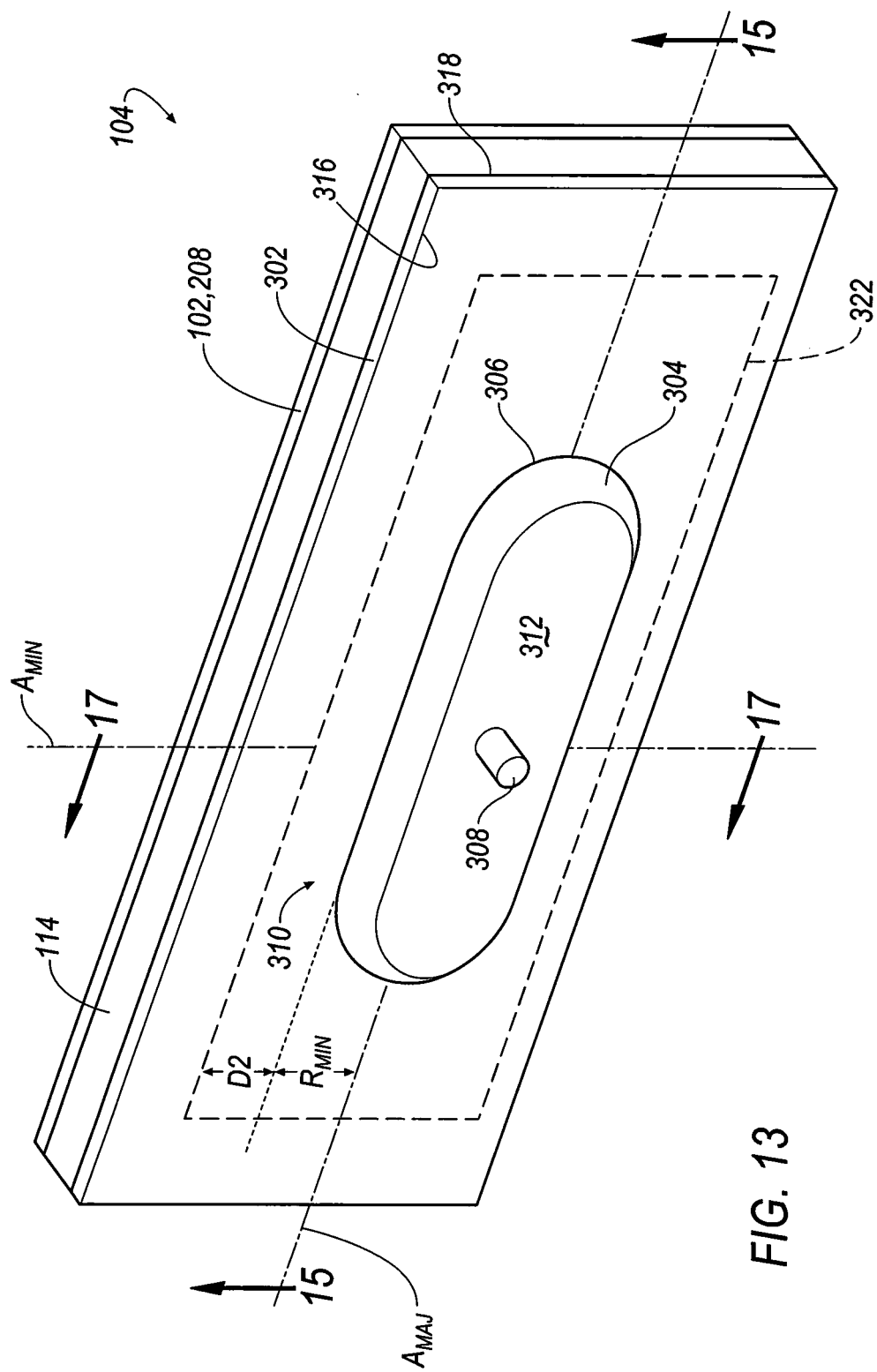


FIG. 13

14/37

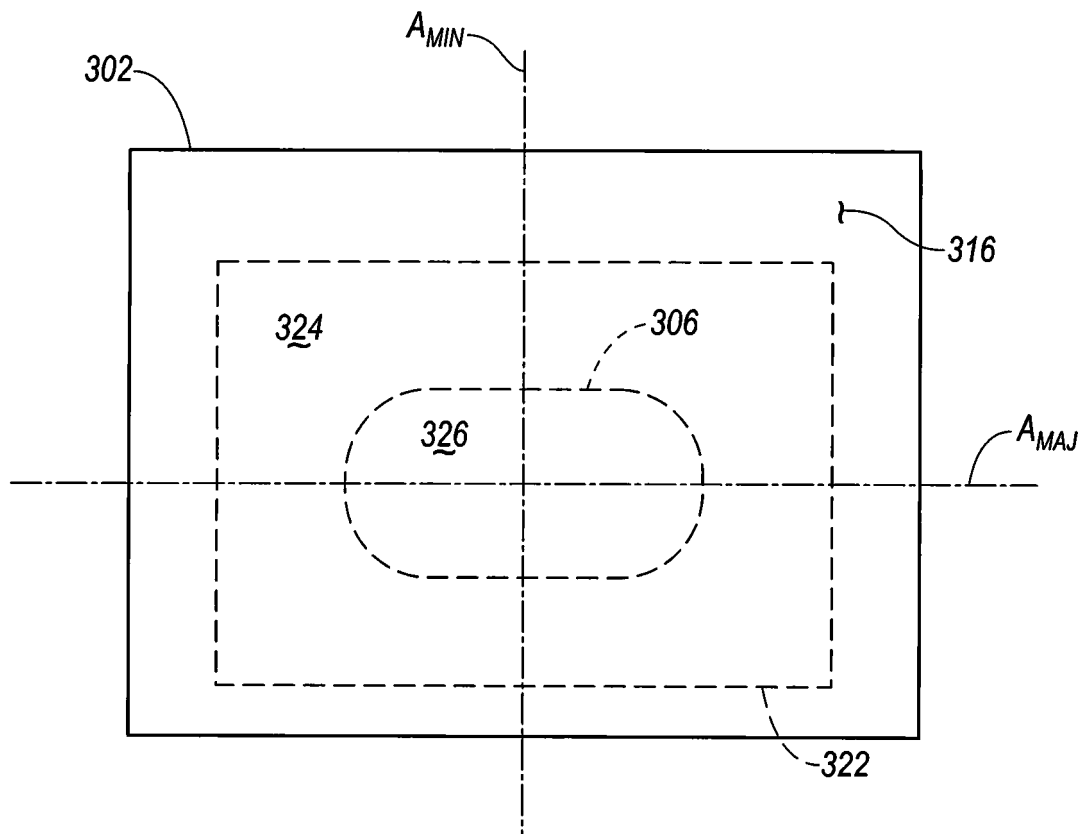


FIG. 14

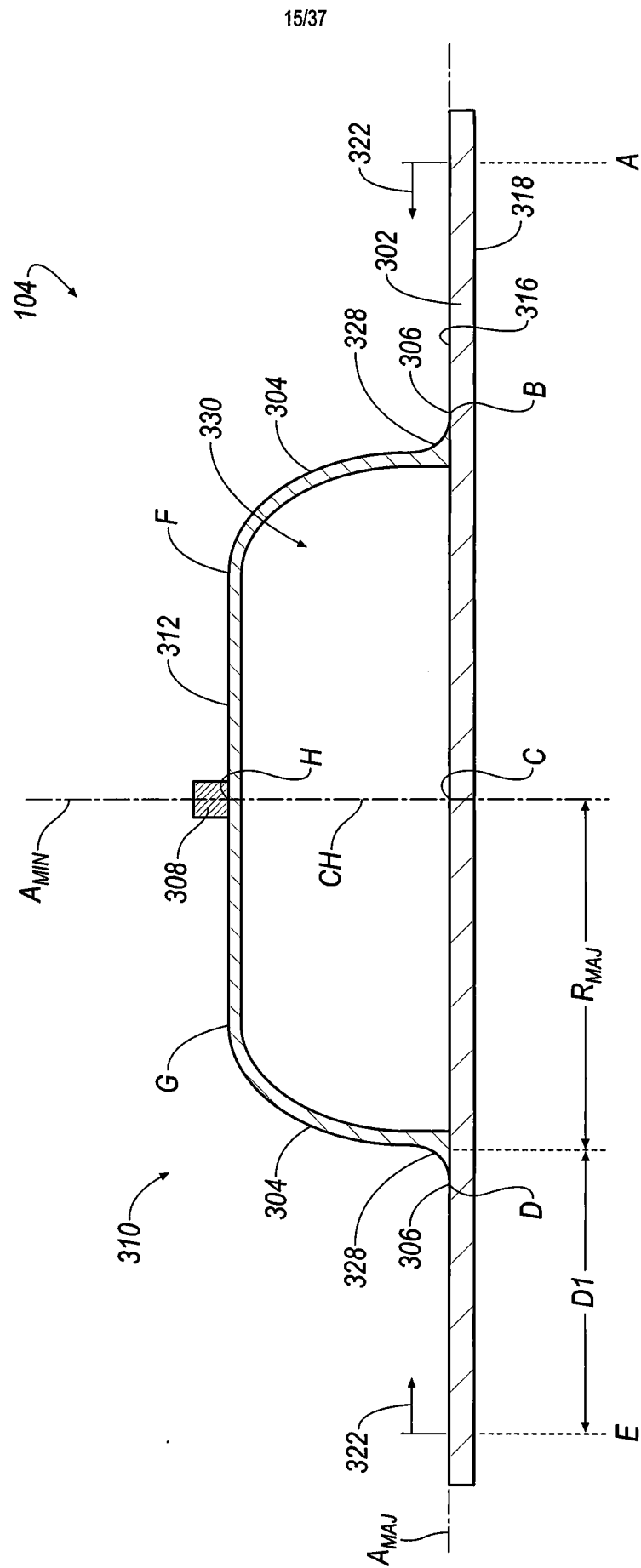


FIG. 15

16/37

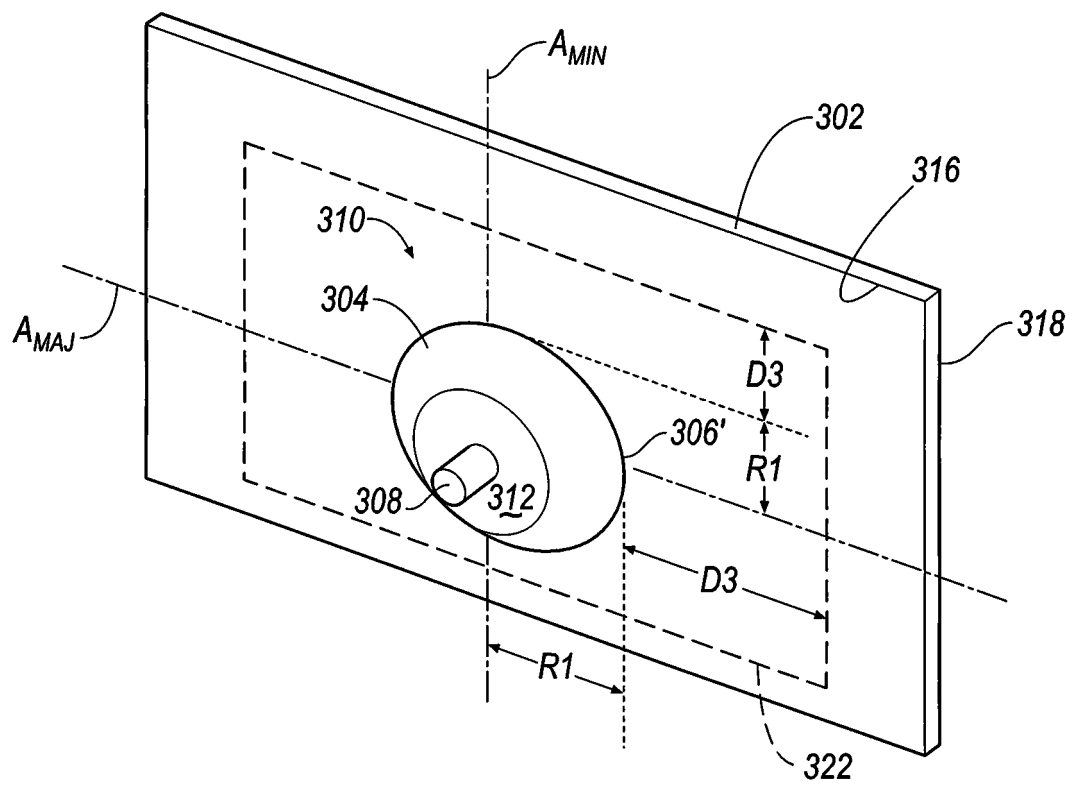


FIG. 16

17/37

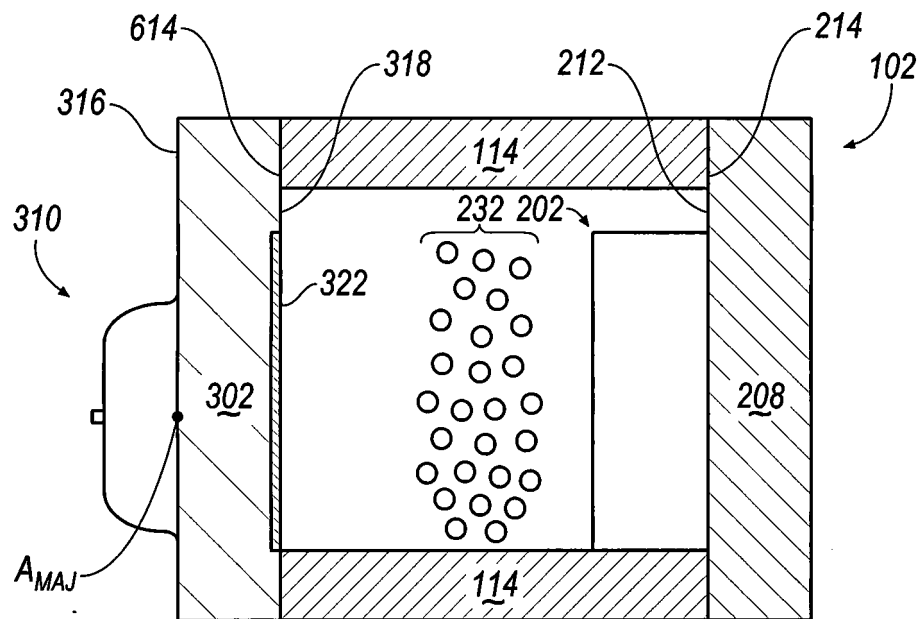


FIG. 17

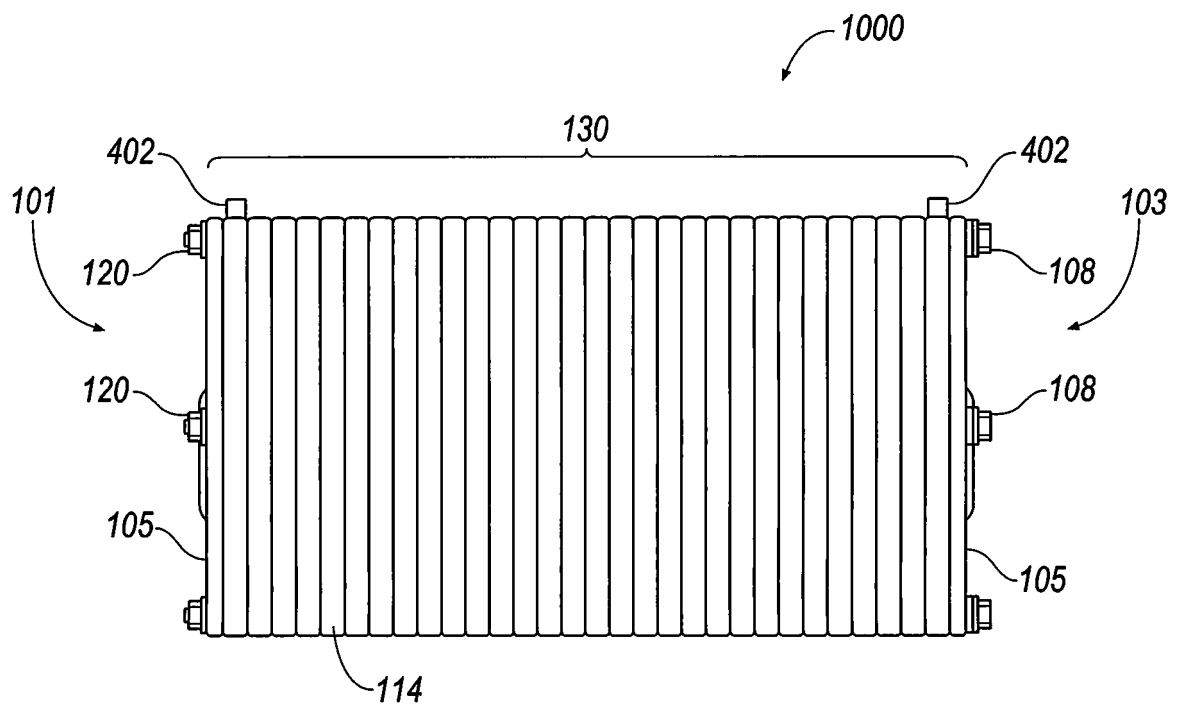


FIG. 18

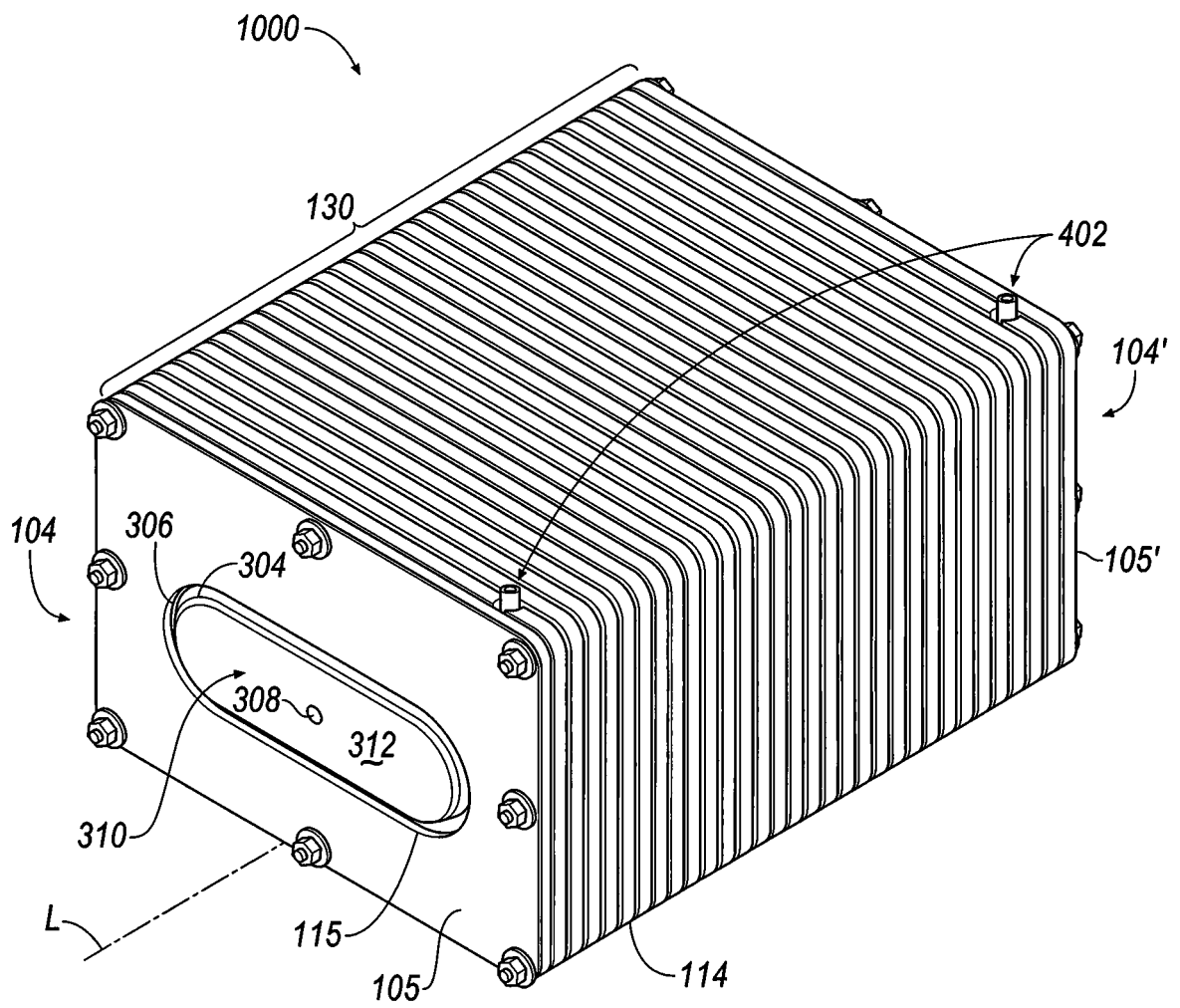
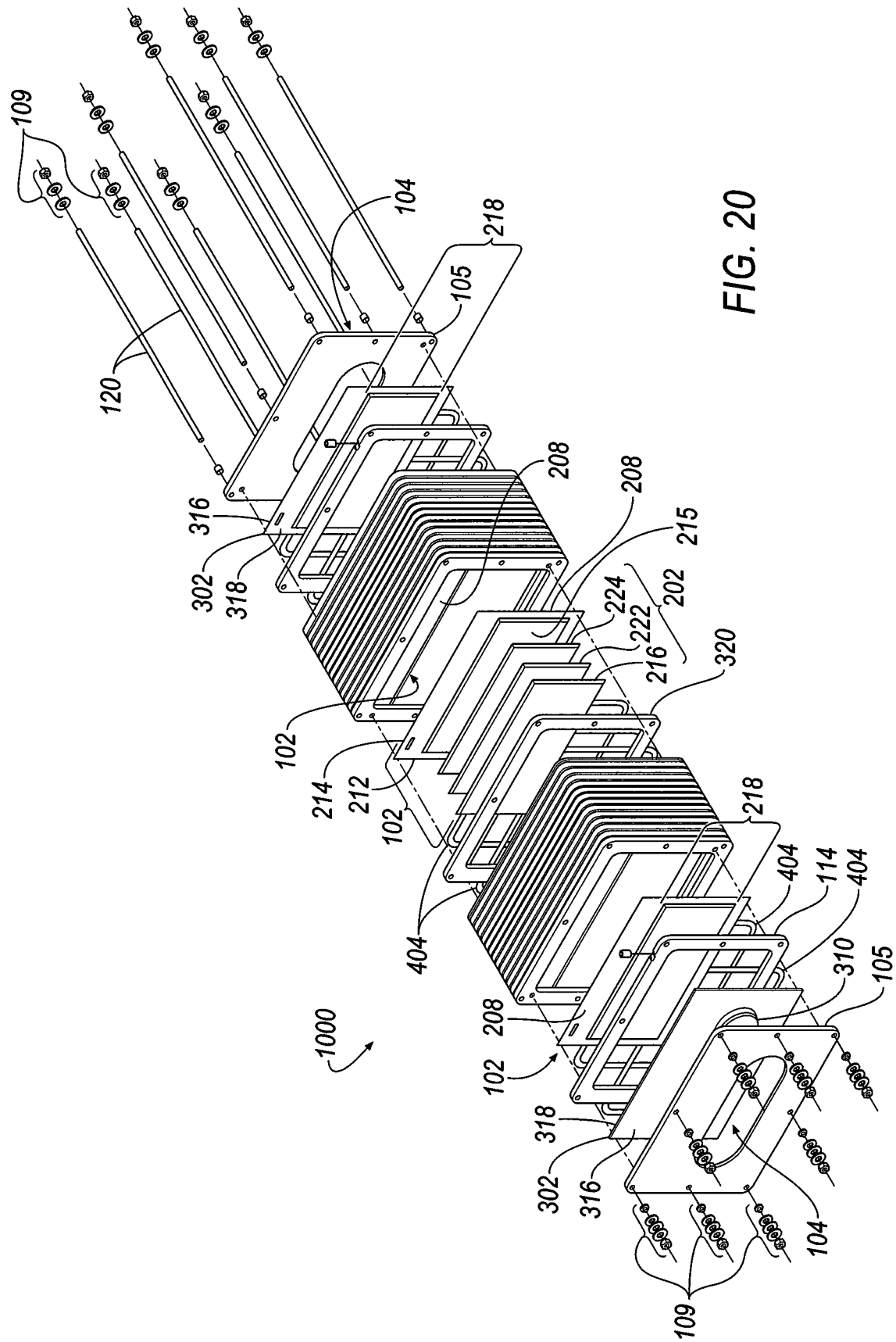
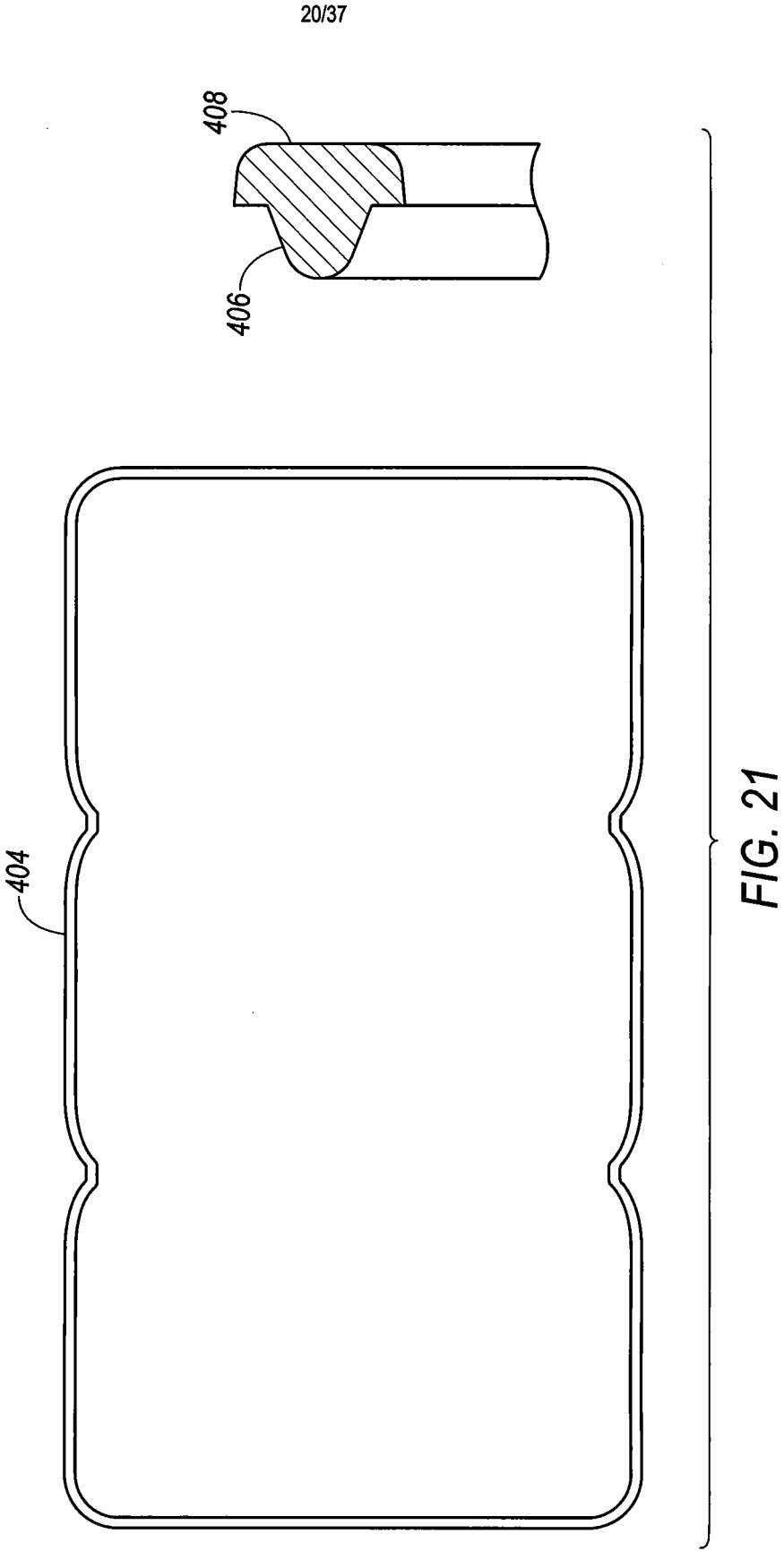


FIG. 19





21/37

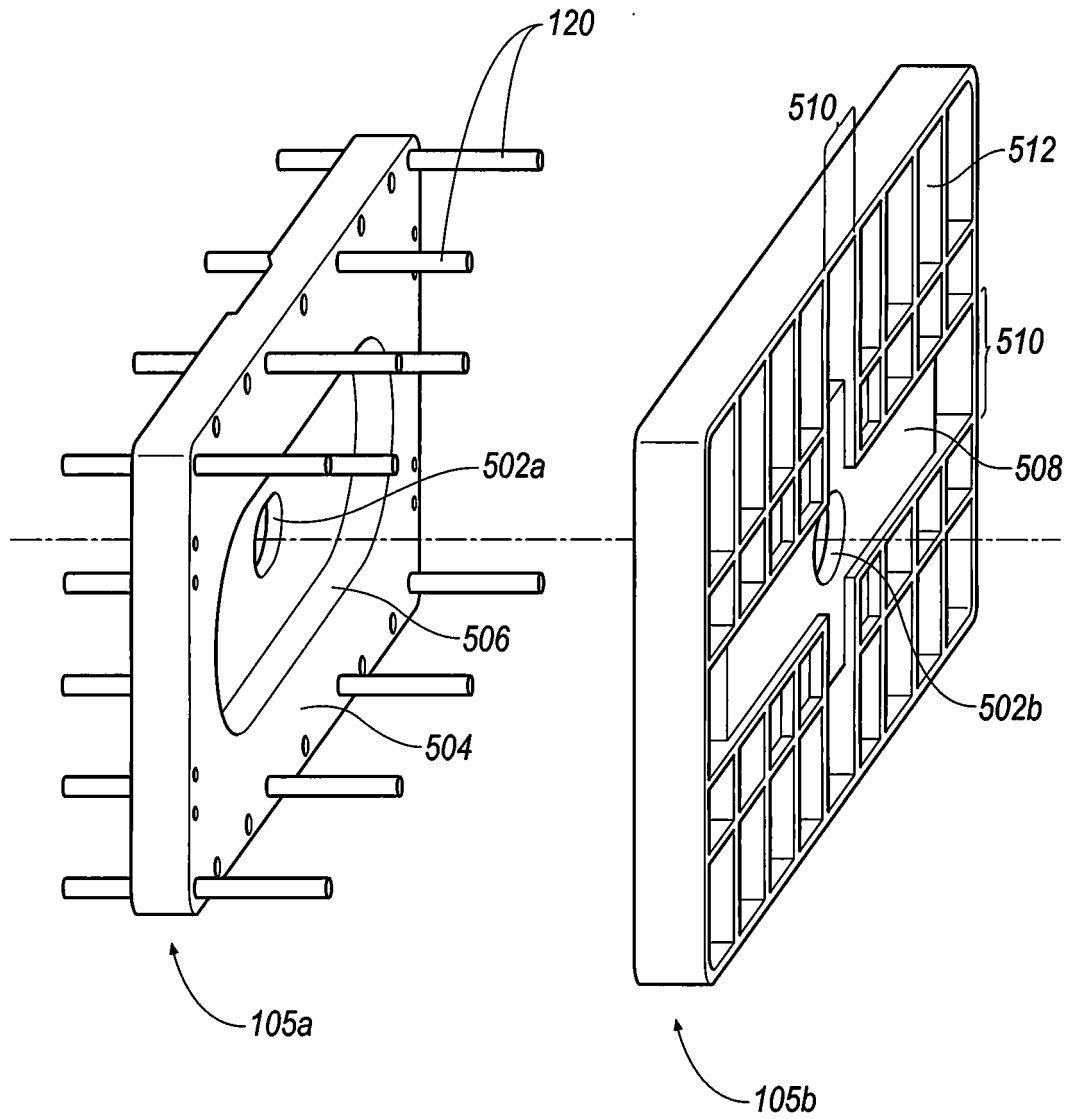
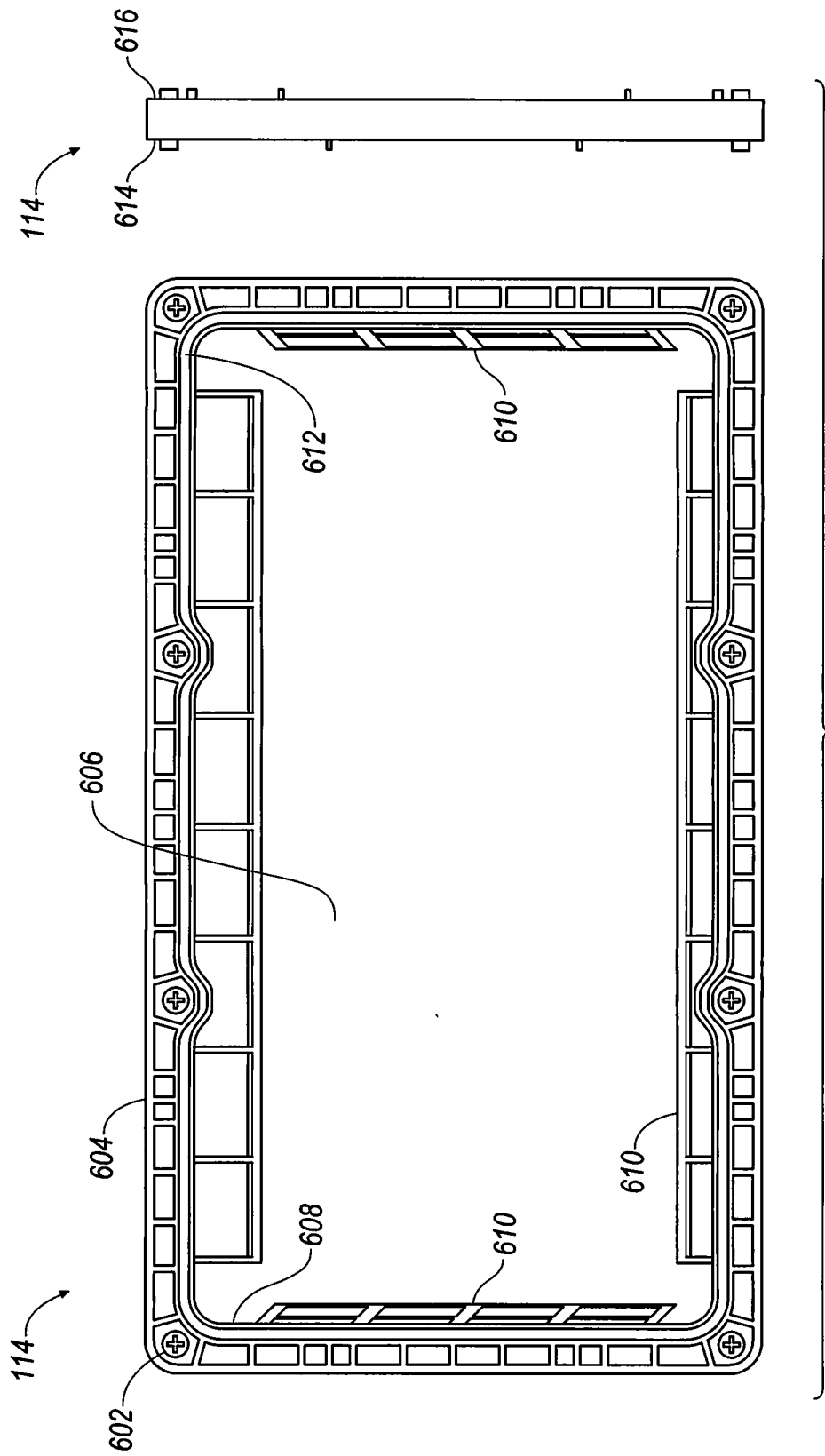


FIG. 22



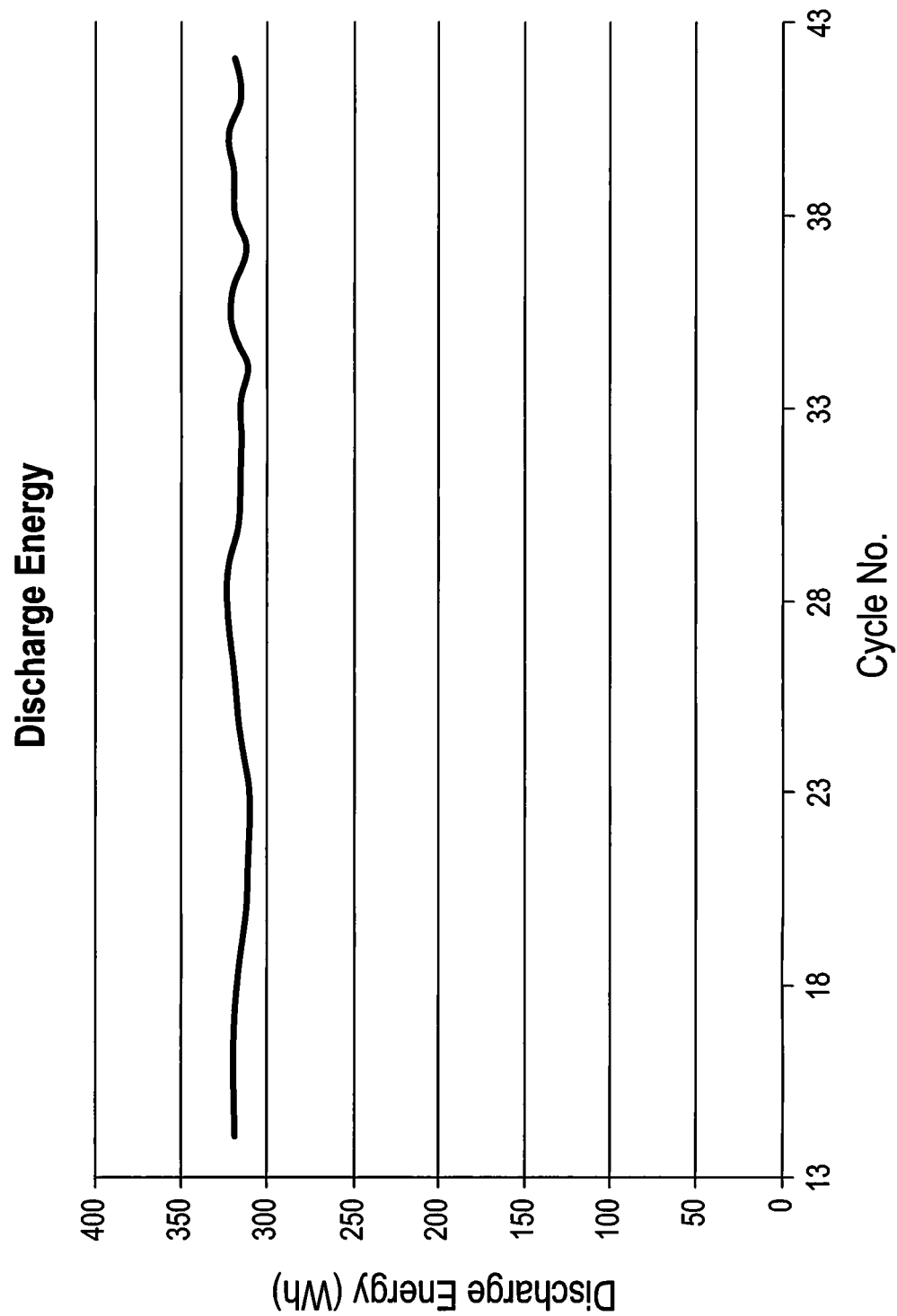
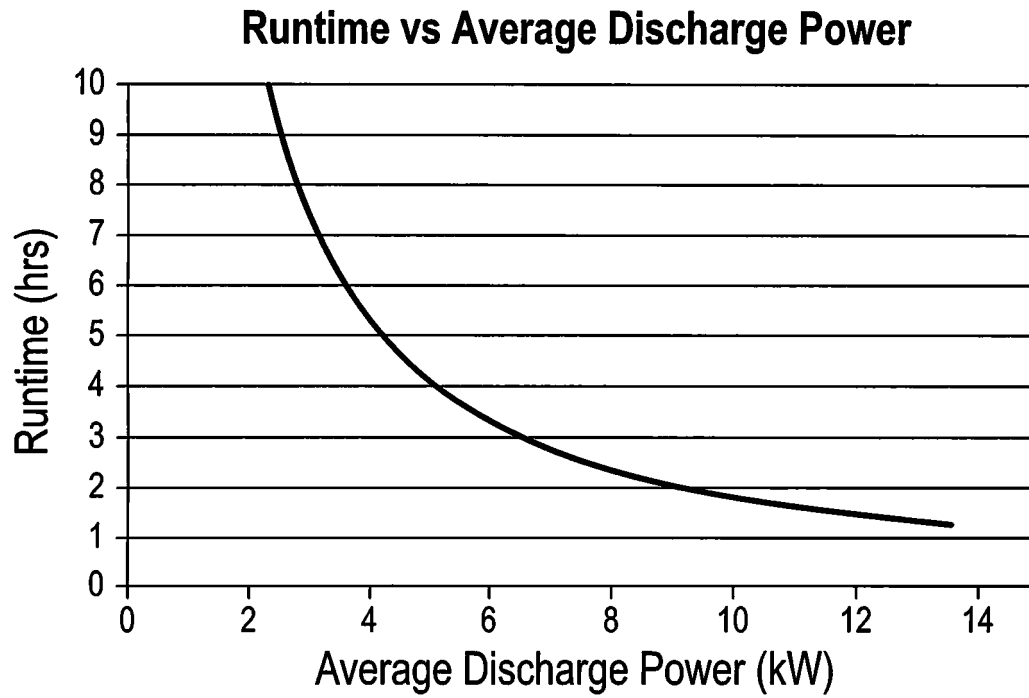
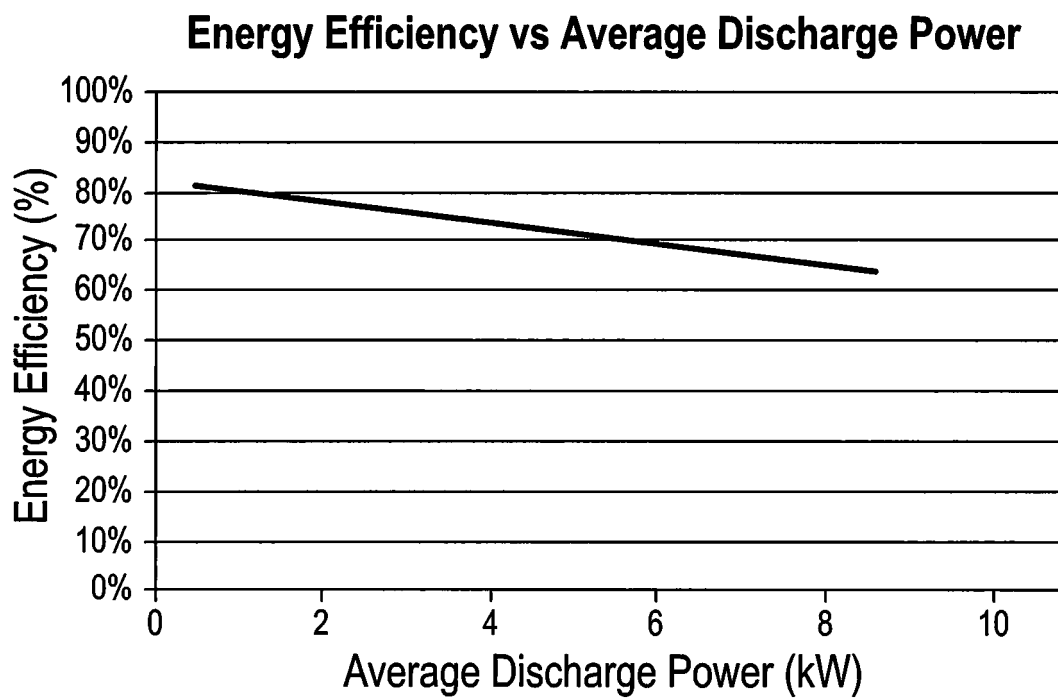
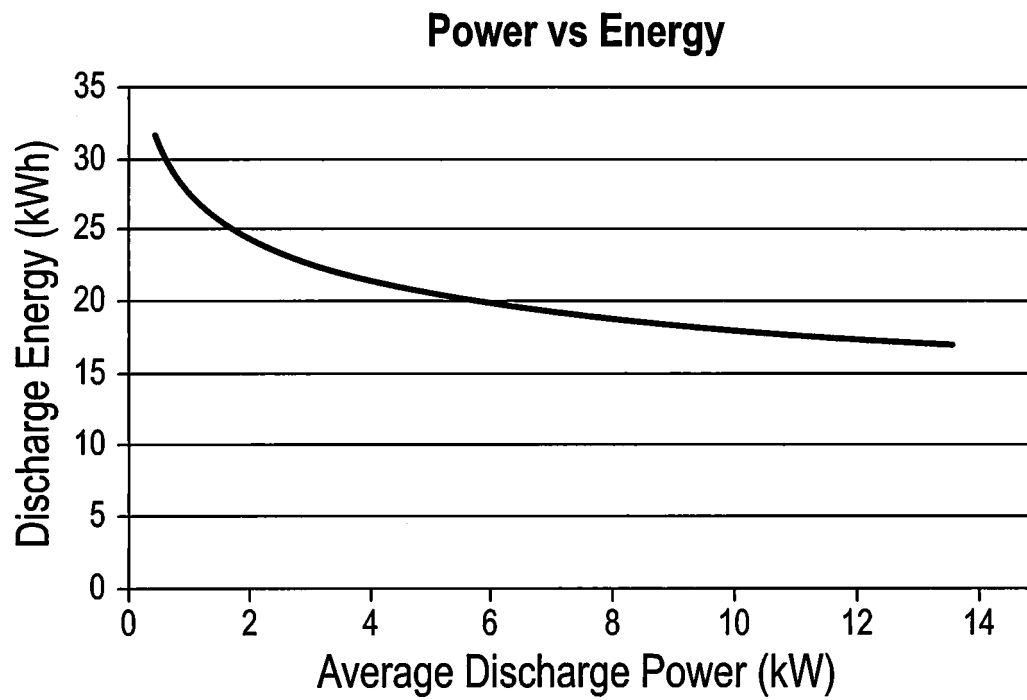


FIG. 24

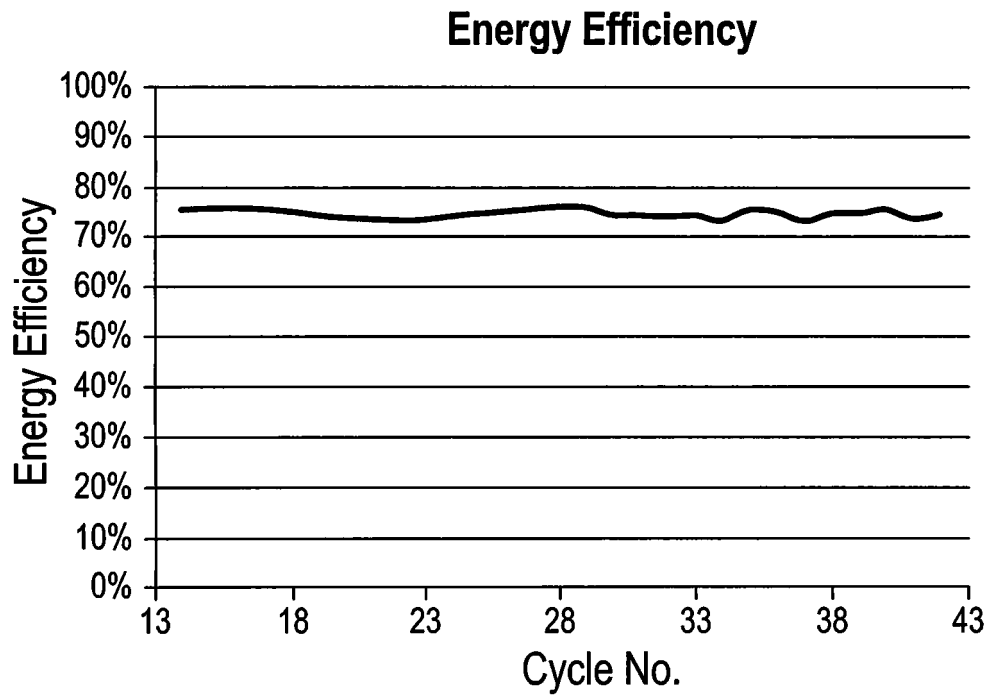
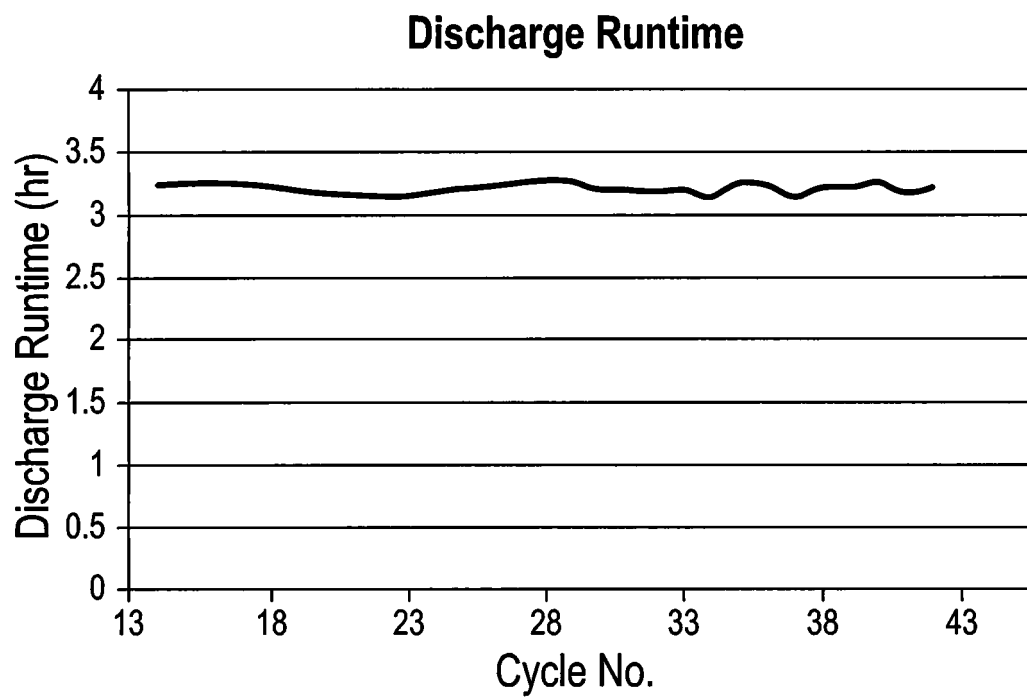
24/37

*FIG. 25A**FIG. 25B*

25/37

**FIG. 26**

26/37

*FIG. 27A**FIG. 27B*

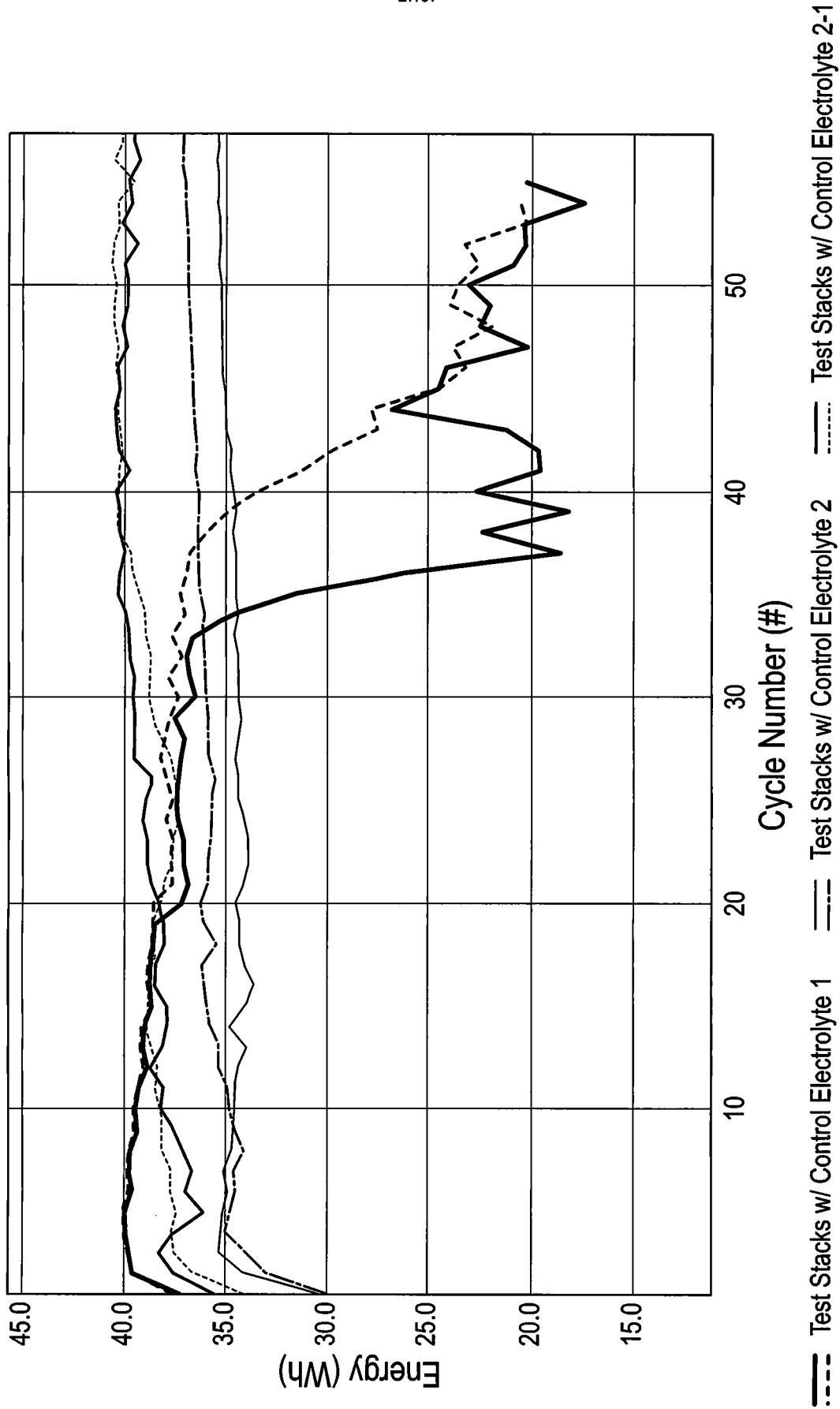
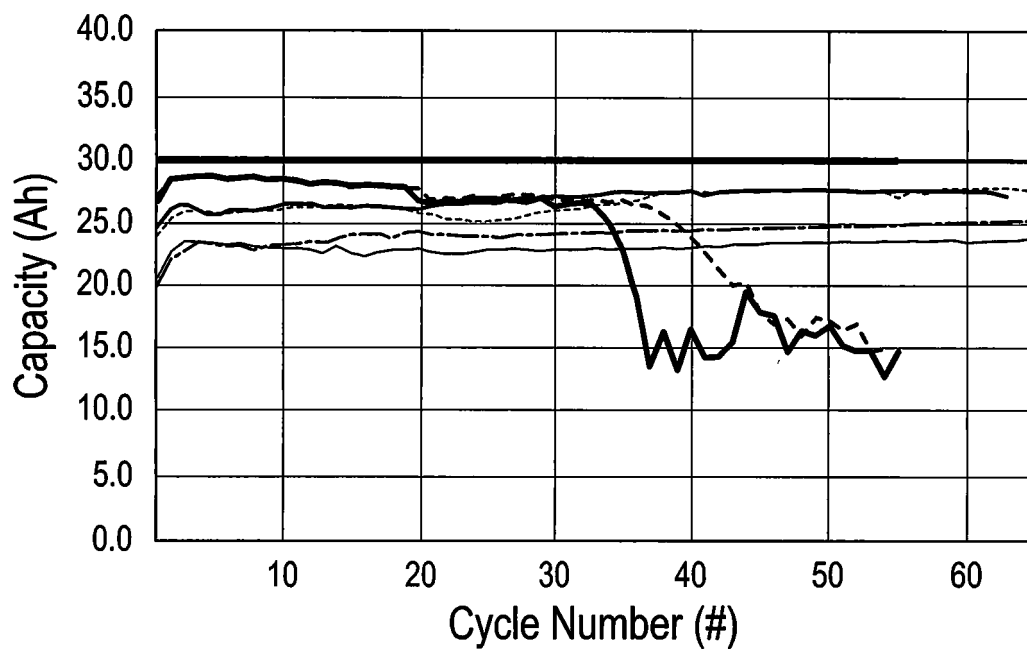


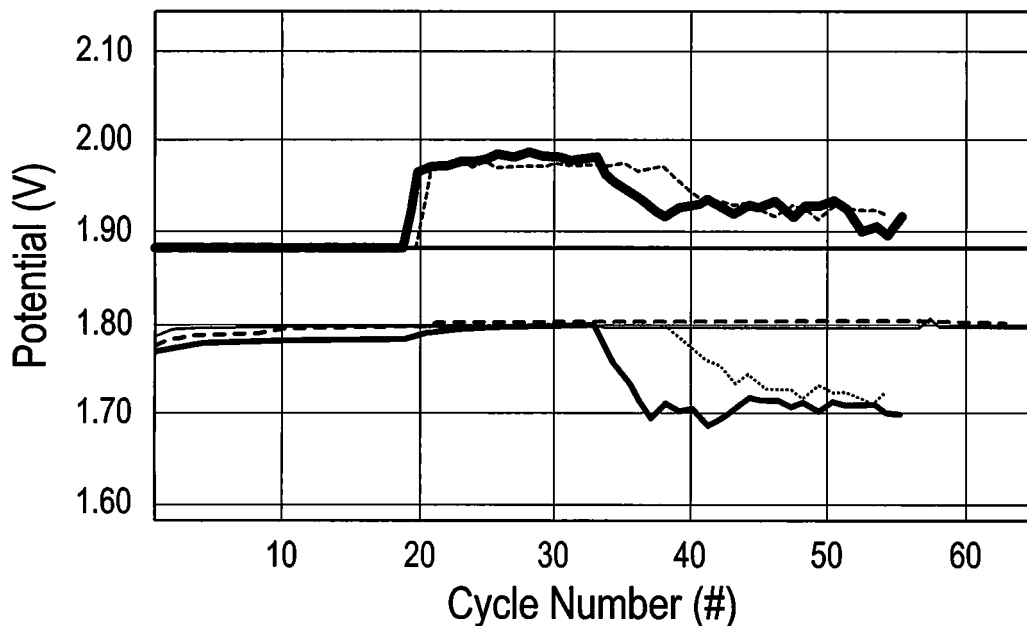
FIG. 28

28/37



--- Test Stacks w/ Control Electrolyte 1 --- Test Stacks w/ Control Electrolyte 2
--- Test Stacks w/ Control Electrolyte 2-1

FIG. 29A



--- Test Stacks w/ Control Electrolyte 1 --- Test Stacks w/ Control Electrolyte 2
--- Test Stacks w/ Control Electrolyte 2-1

FIG. 29B

29/37

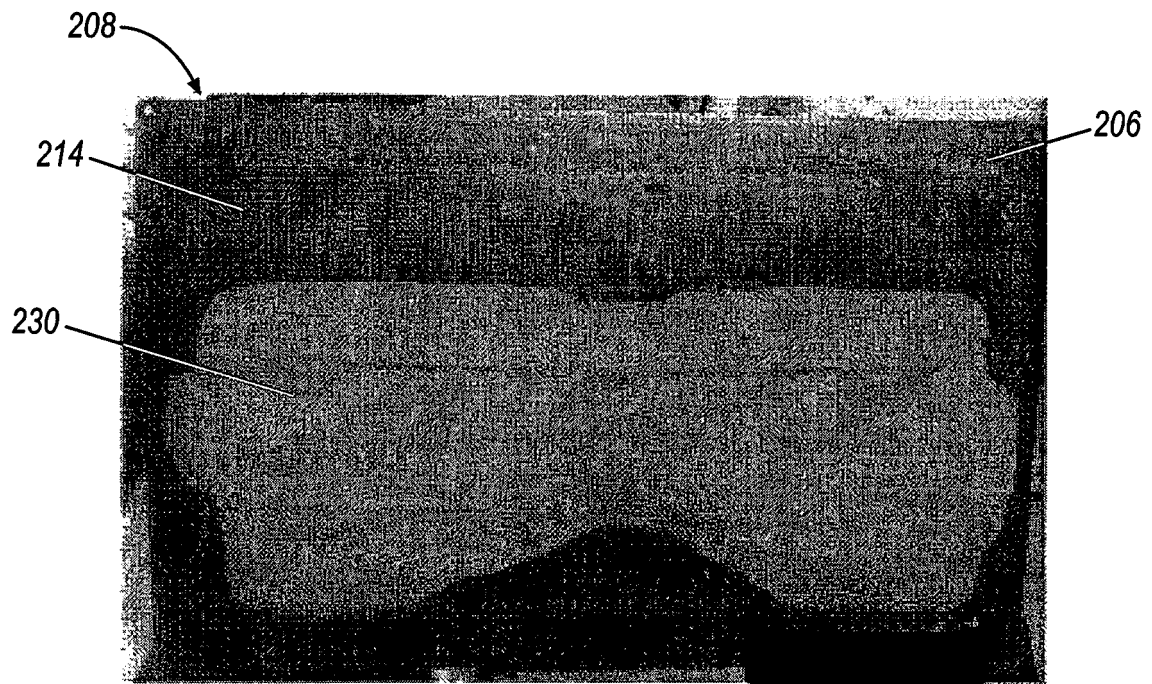


FIG. 30A

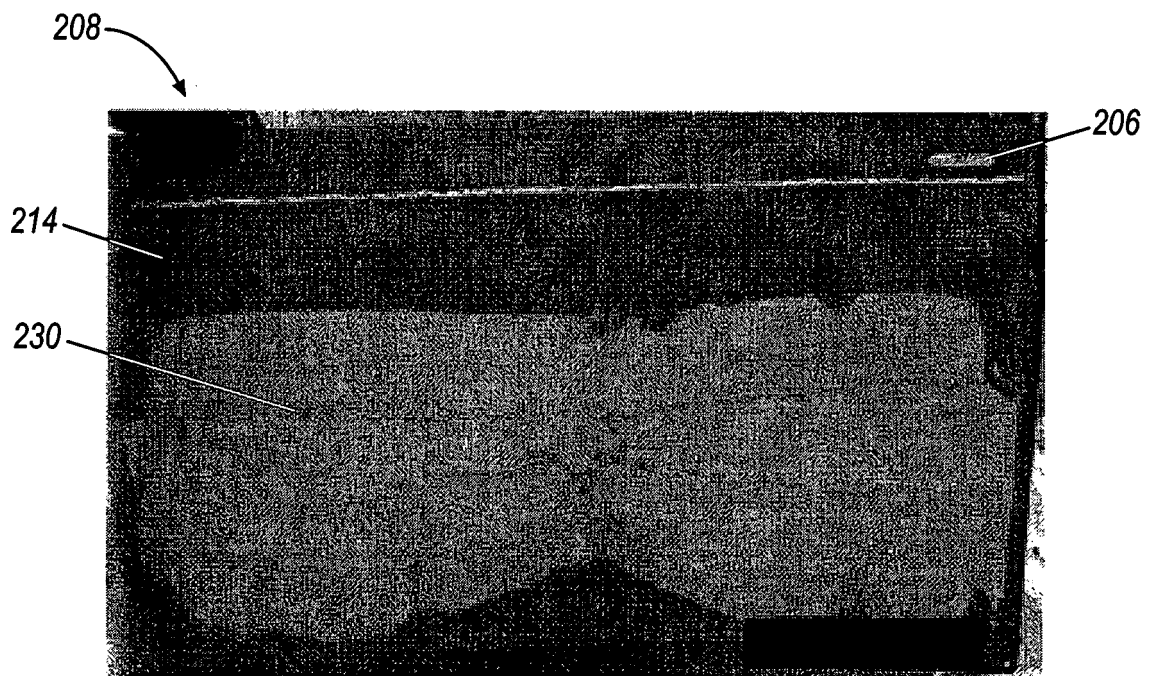


FIG. 30B

30/37

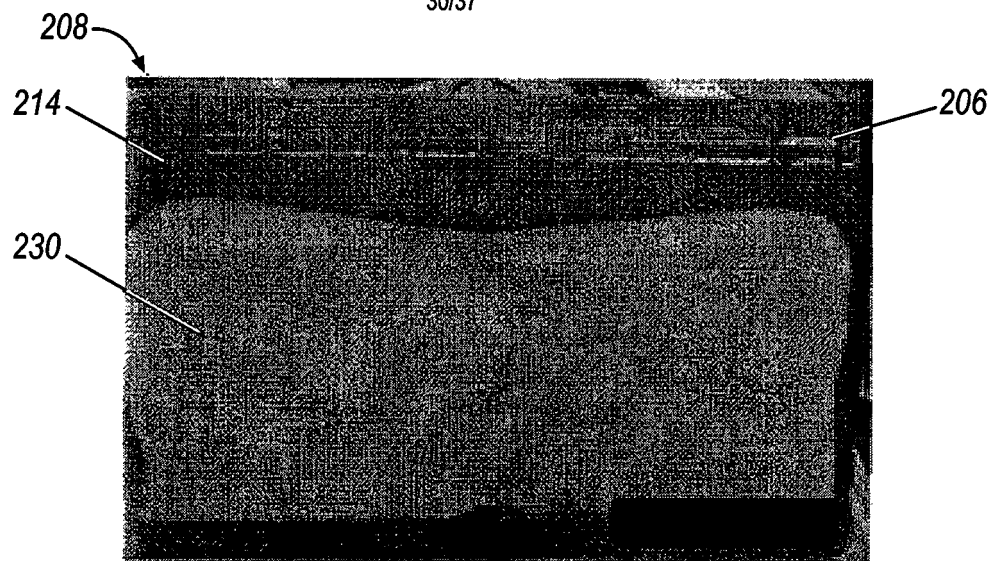


FIG. 31A

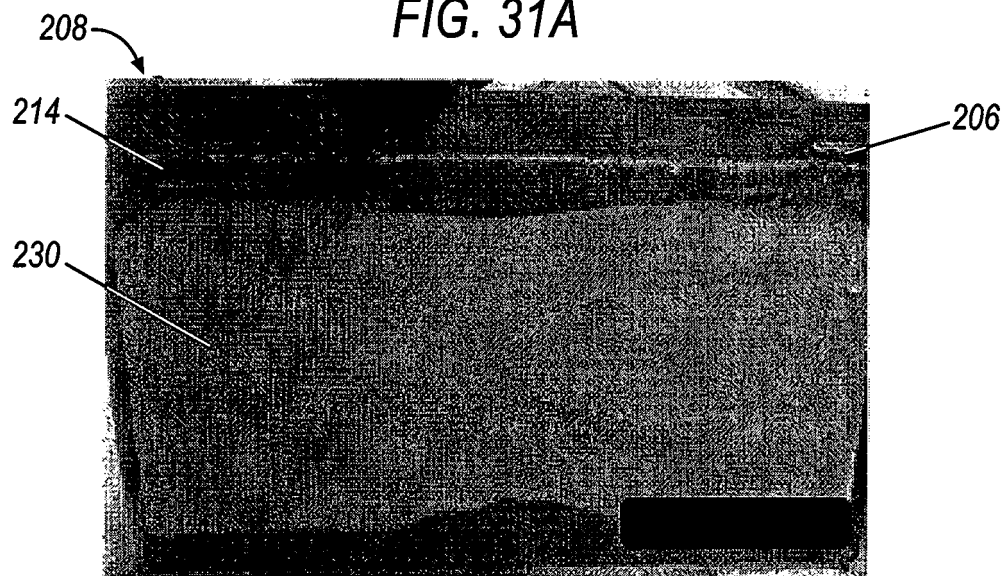


FIG. 31B

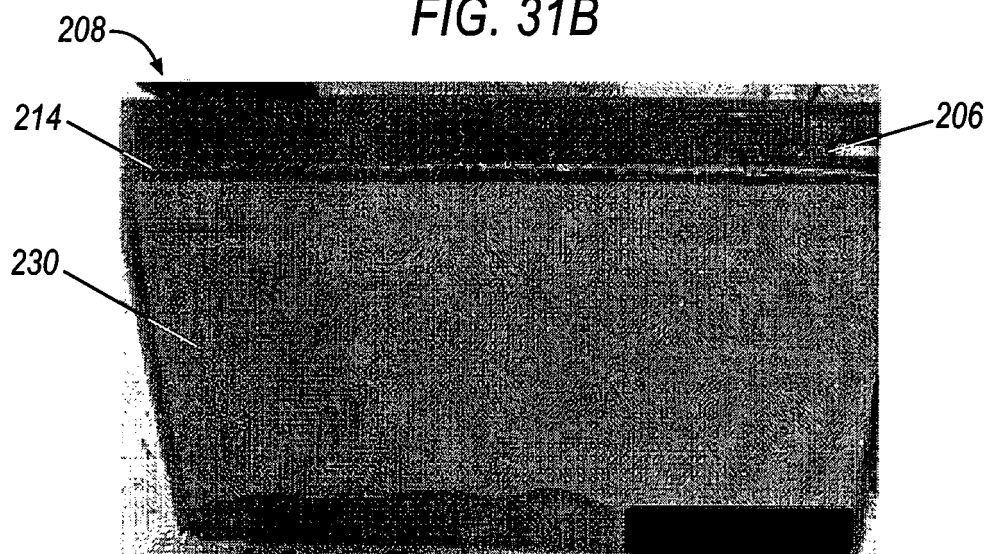


FIG. 31C

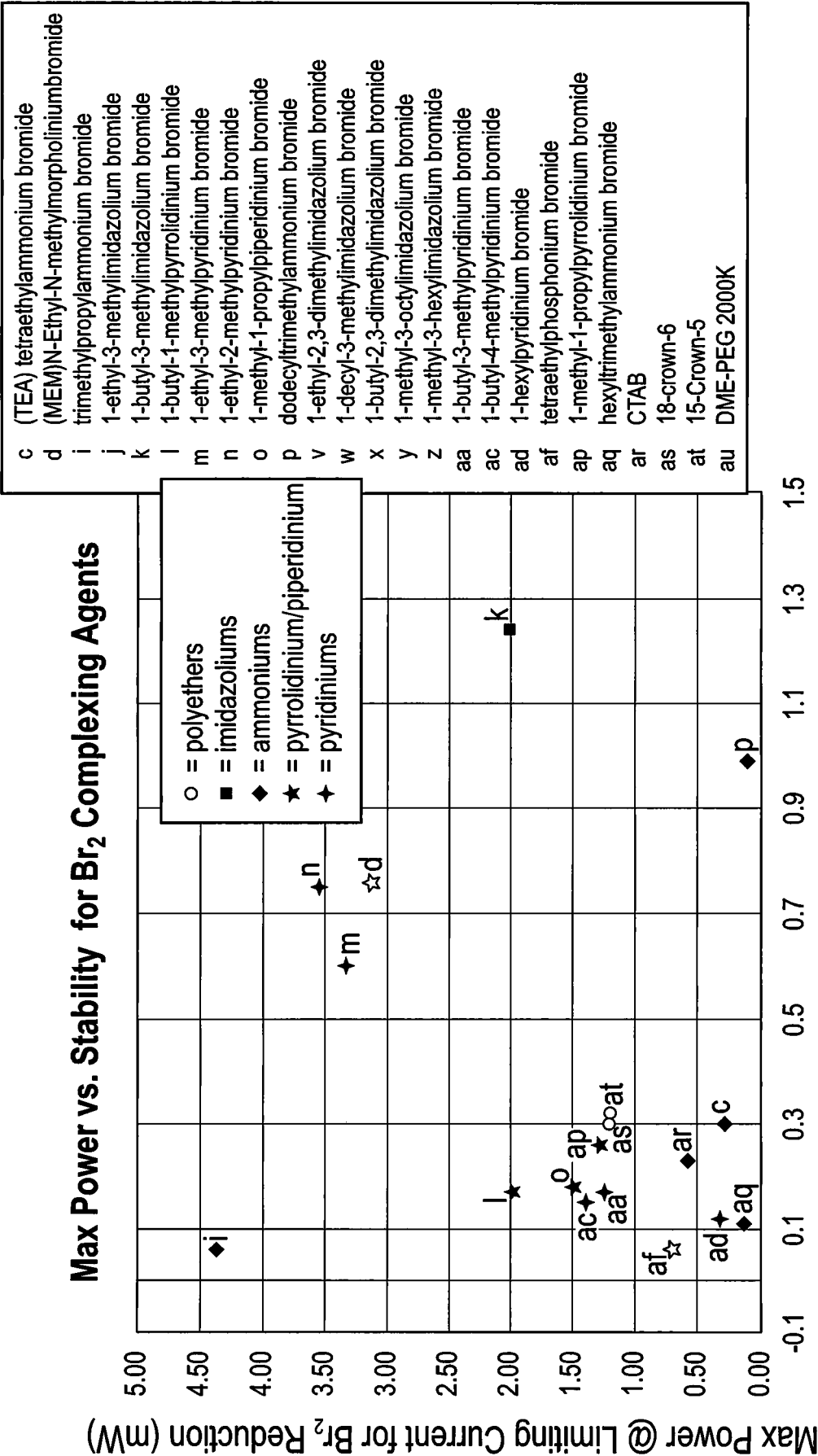
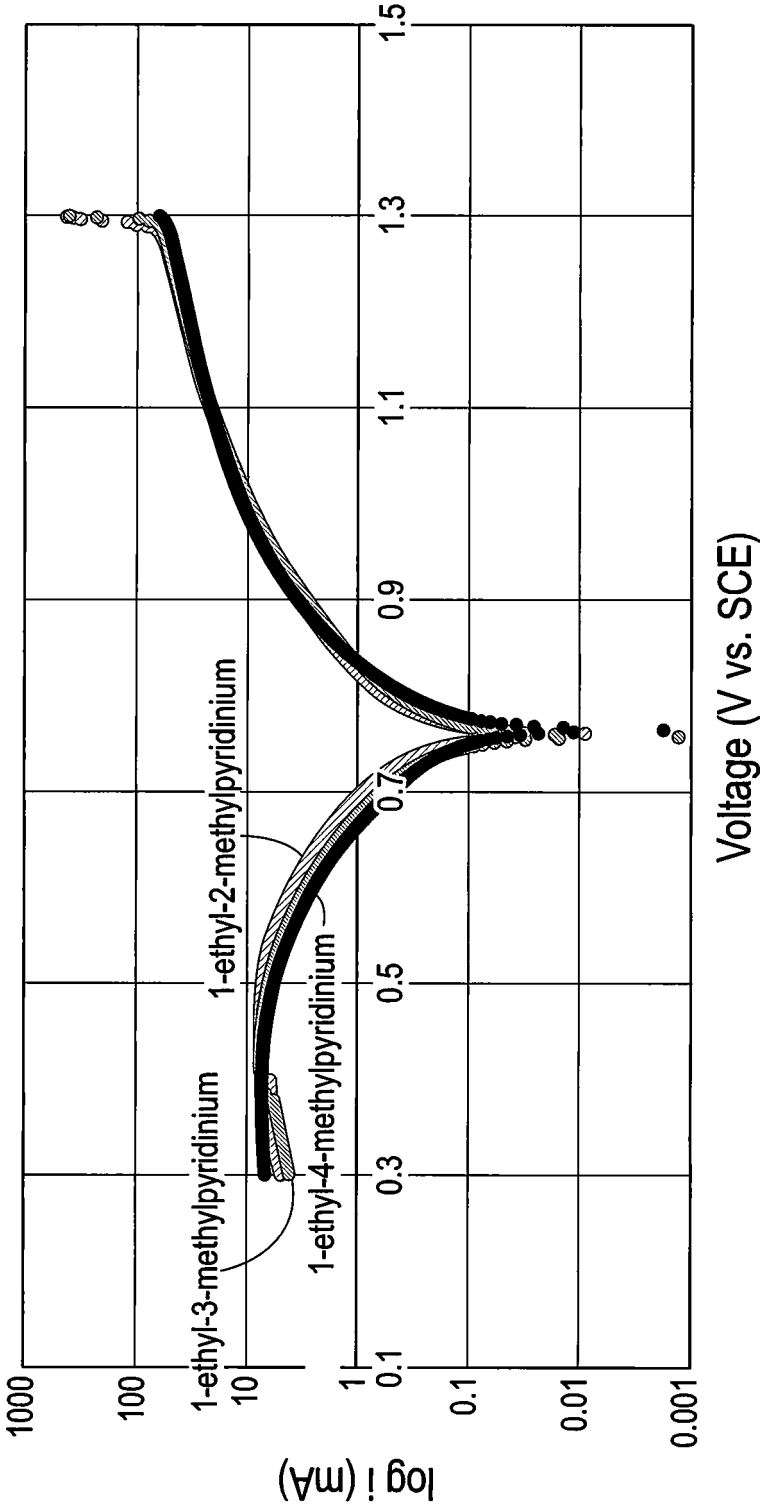


FIG. 32

Comparison of Br₂ Activity of Ethyl Methyl Pyridiniums
Tafel Plots of Ethyl Methyl Pyridiniums



Max Power at Limiting Current similar for each:
● 1-ethyl-2-methylpyridinium Br=3.43 mW
● 1-ethyl-3-methylpyridinium Br=3.28 mW
● 1-ethyl-4-methylpyridinium Br=3.03 mW

FIG. 33

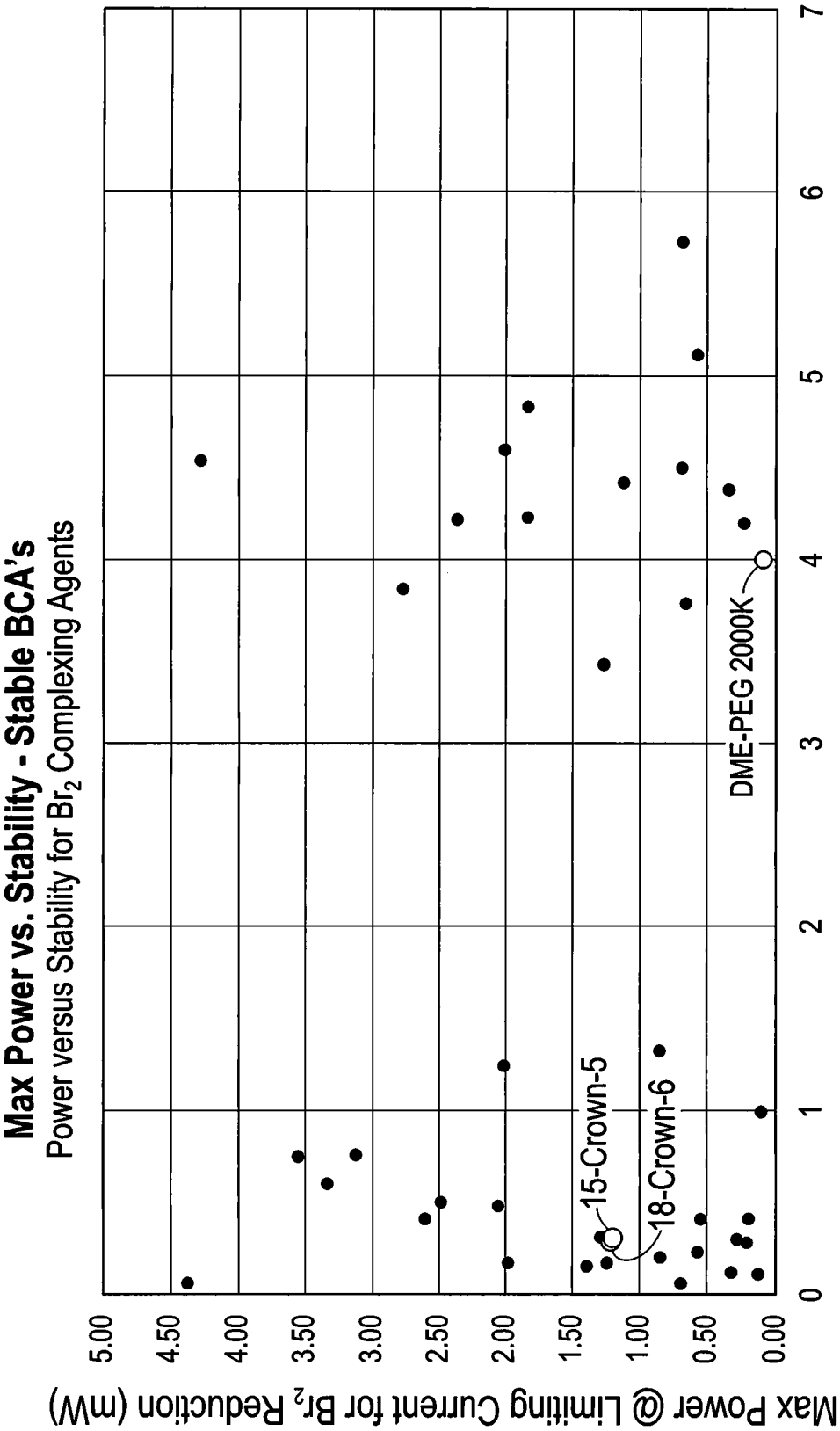


FIG. 34

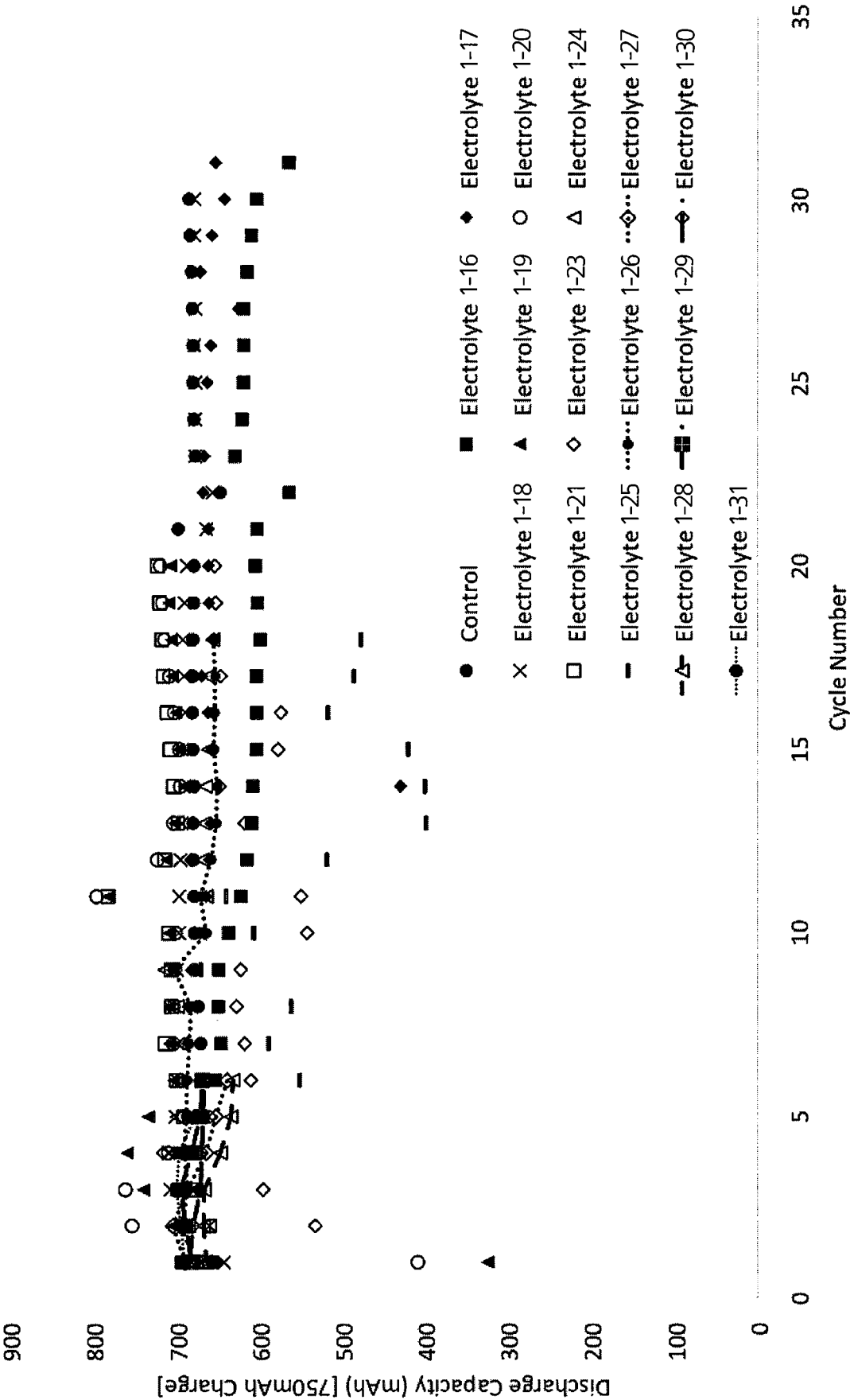


FIG. 35

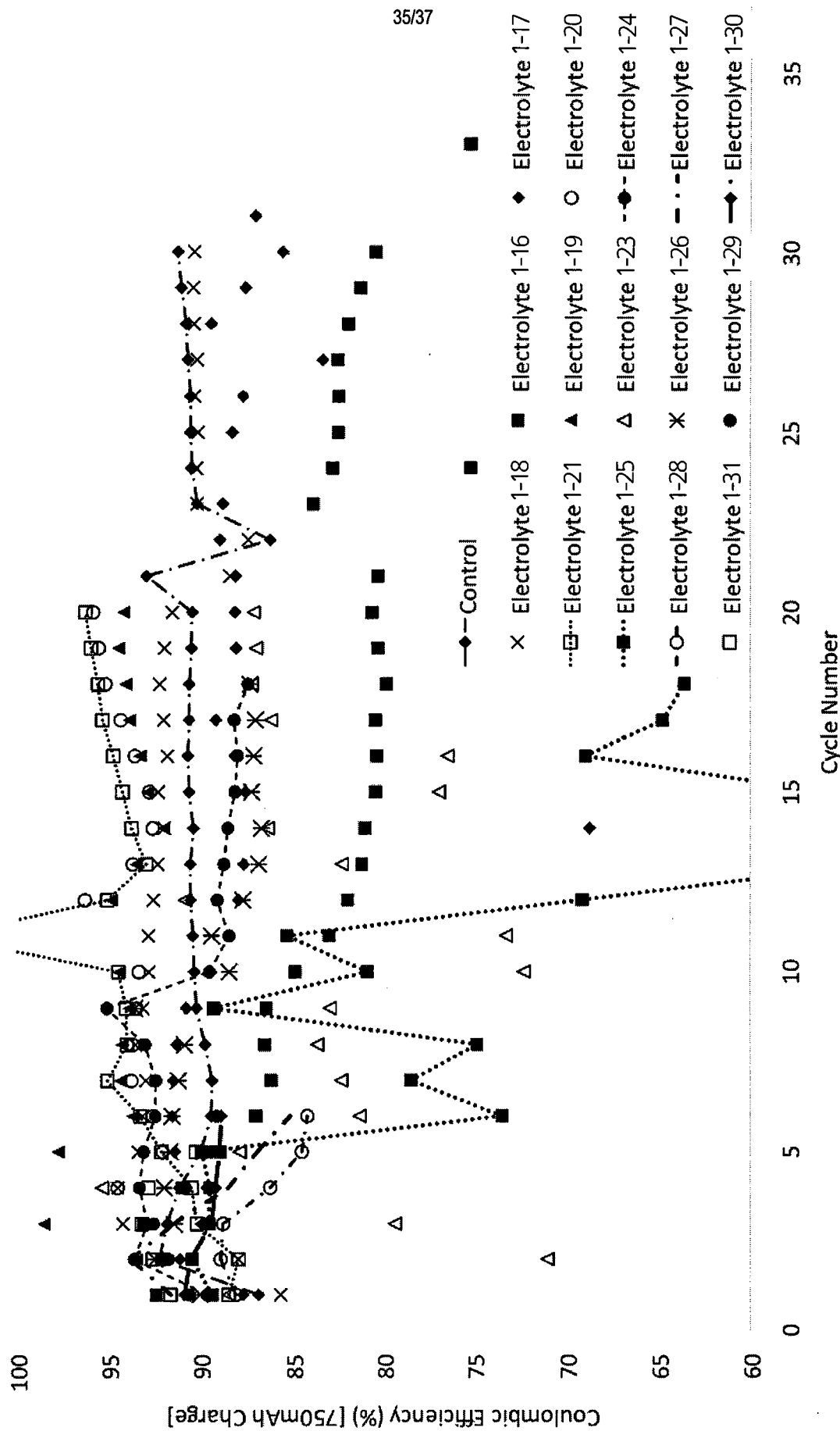


FIG. 36

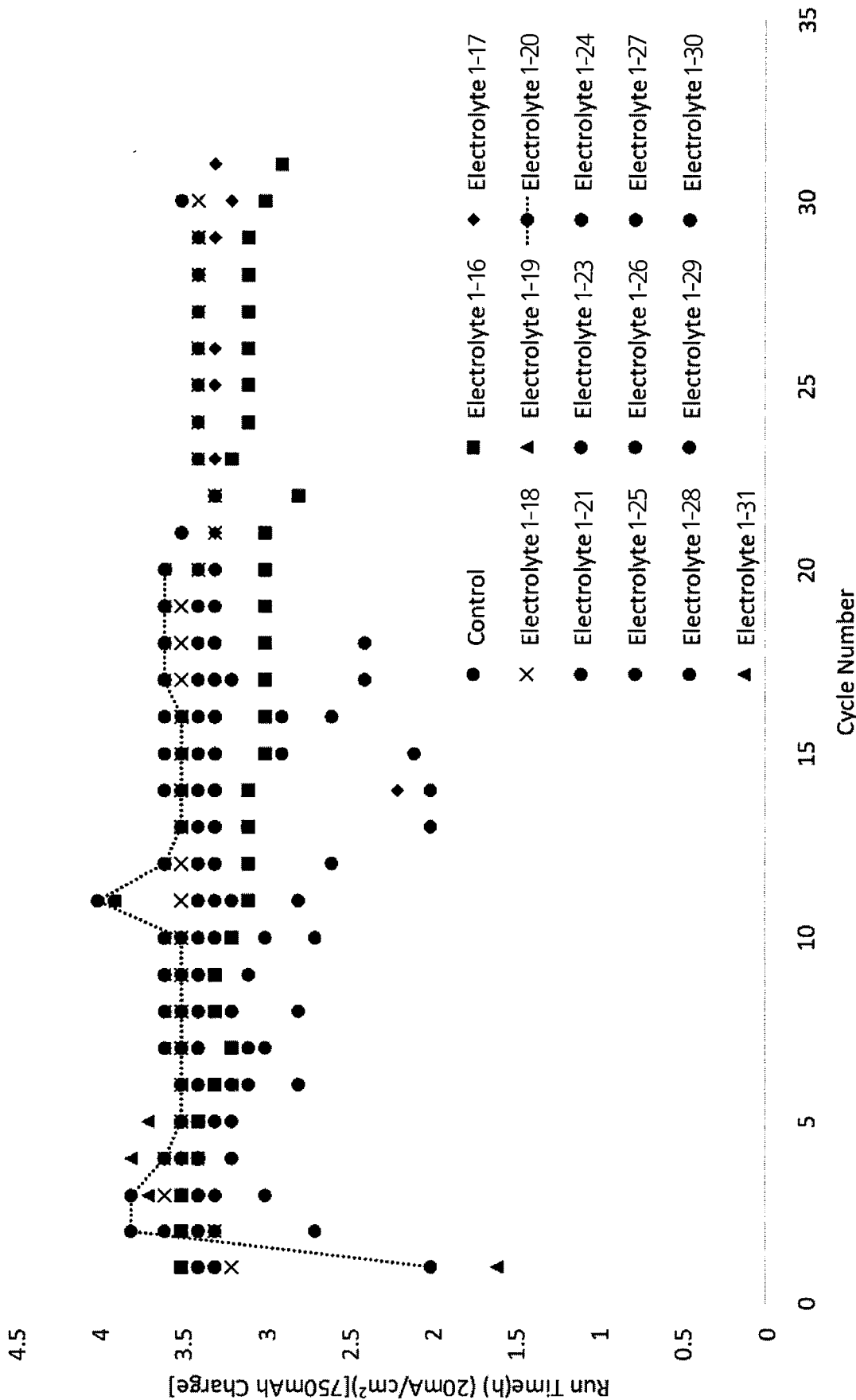


FIG. 37

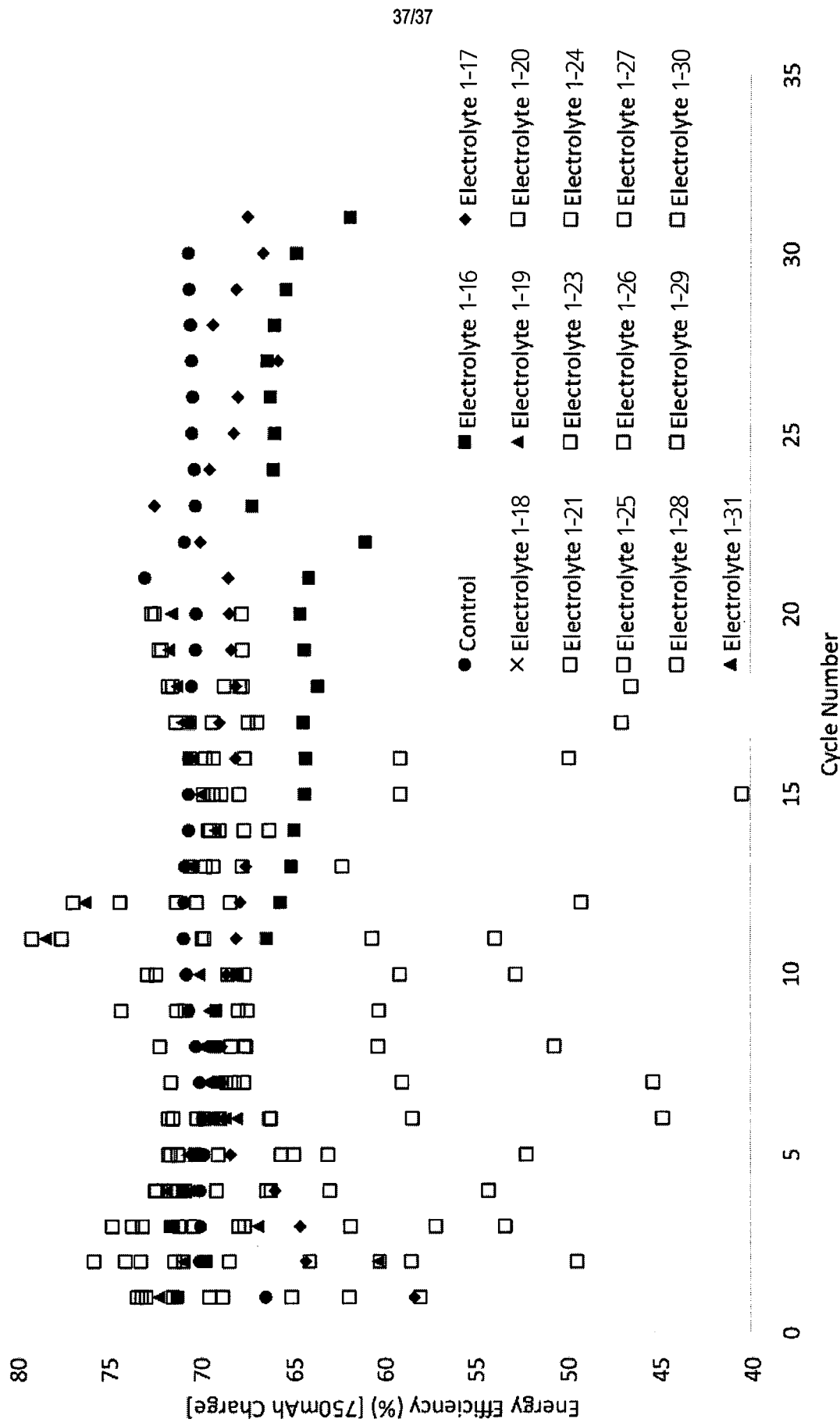


FIG. 38