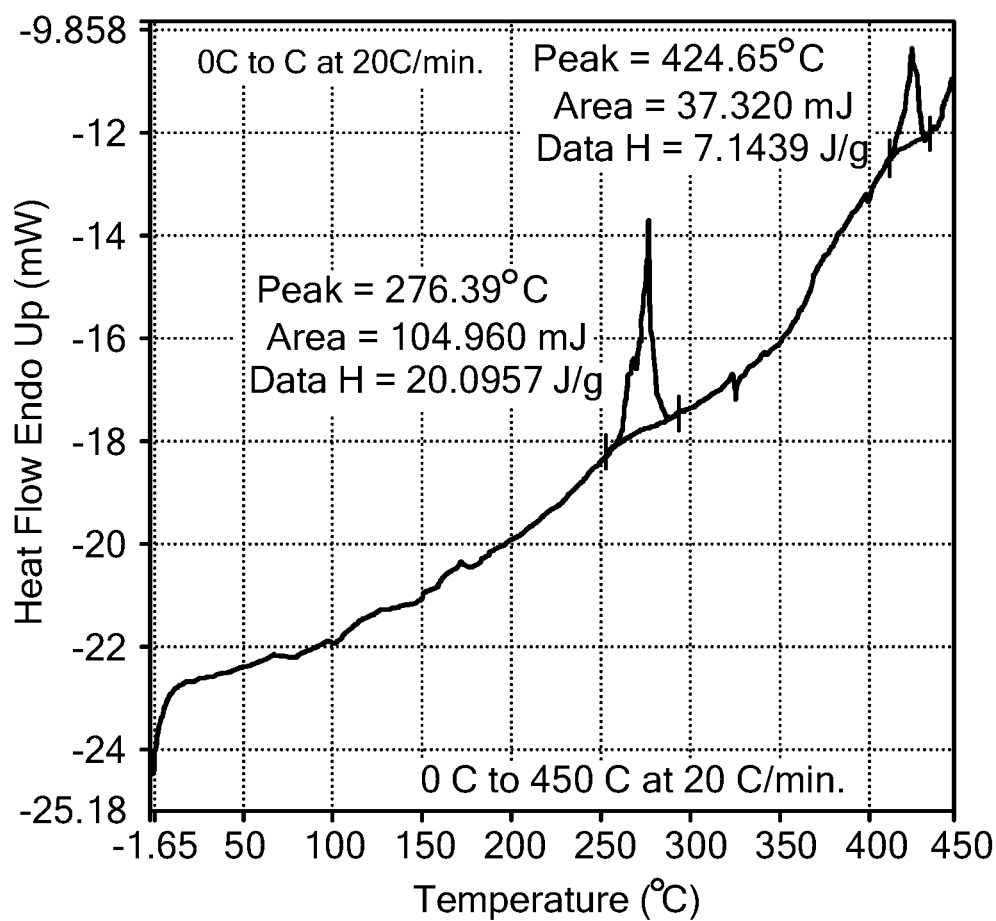
**FIG. 1**

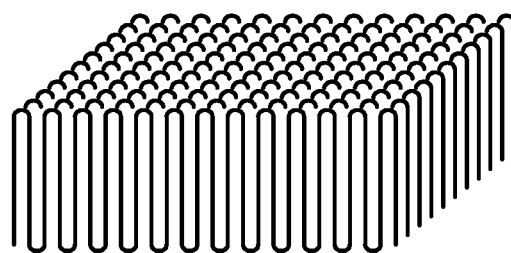
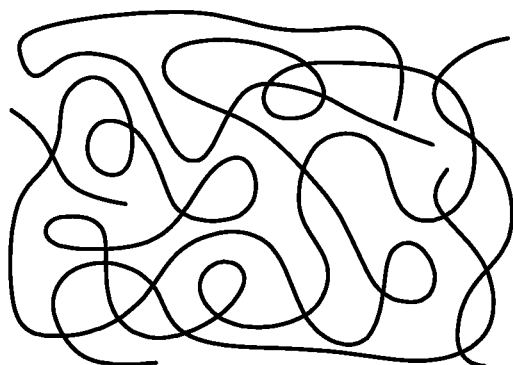
Dynamic Scanning Calorimetry Curve of Semicrystalline Polymer

FIG. 2

Compounds	A	B	C	D
Base Resin				
Phillips-Chevron Ryton QC160N PPS	80 wt%	50 wt%	67 wt%	50 wt%
Ion Source Fillers				
Zinc Oxide, 20nm spheres	20 wt%	50 wt%		
Lithium Oxide, milled to <2 micron			33 wt%	50 wt%

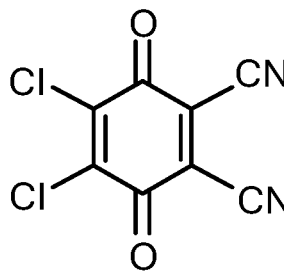
FIG. 3

Table 1
Exemplary formulations investigated.



They can fold, and they can stack.
A stack of polymer chains folded
back on themselves like this is
called a lamella.

Amorphous and Crystalline Polymers

FIG. 4**FIG. 5**

2,3-dicyano-5,6-dichlorodicyanoquinone

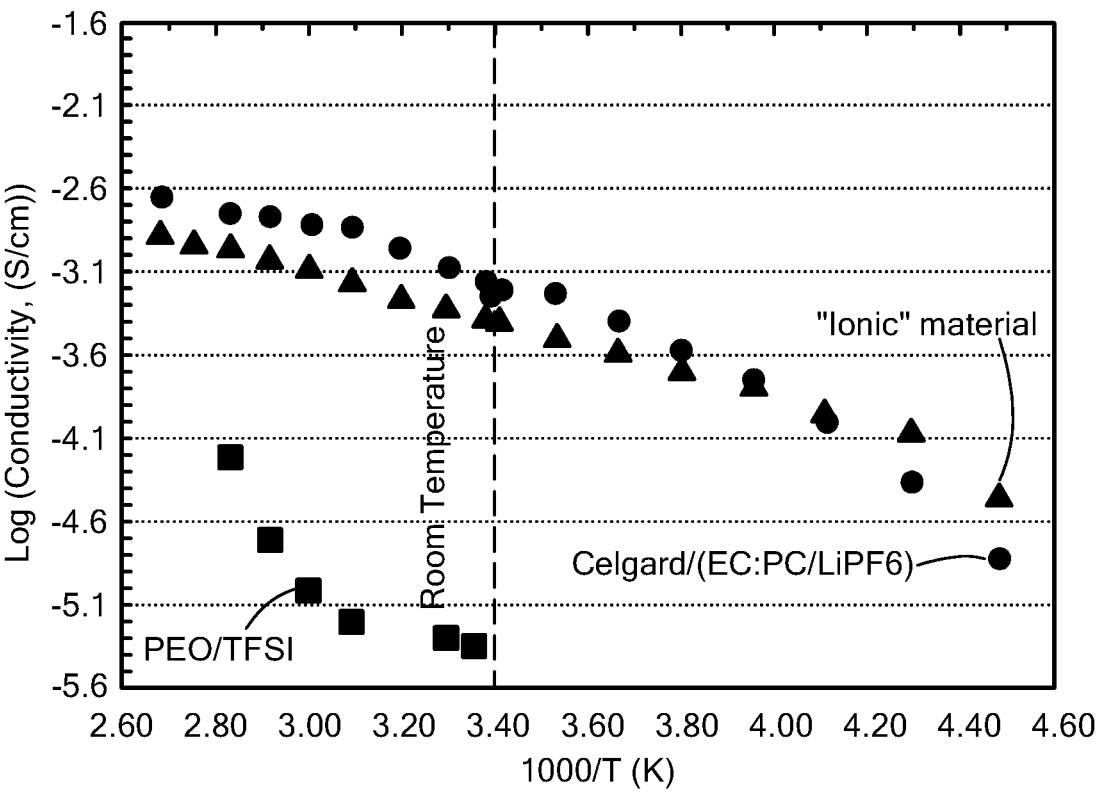


FIG. 6

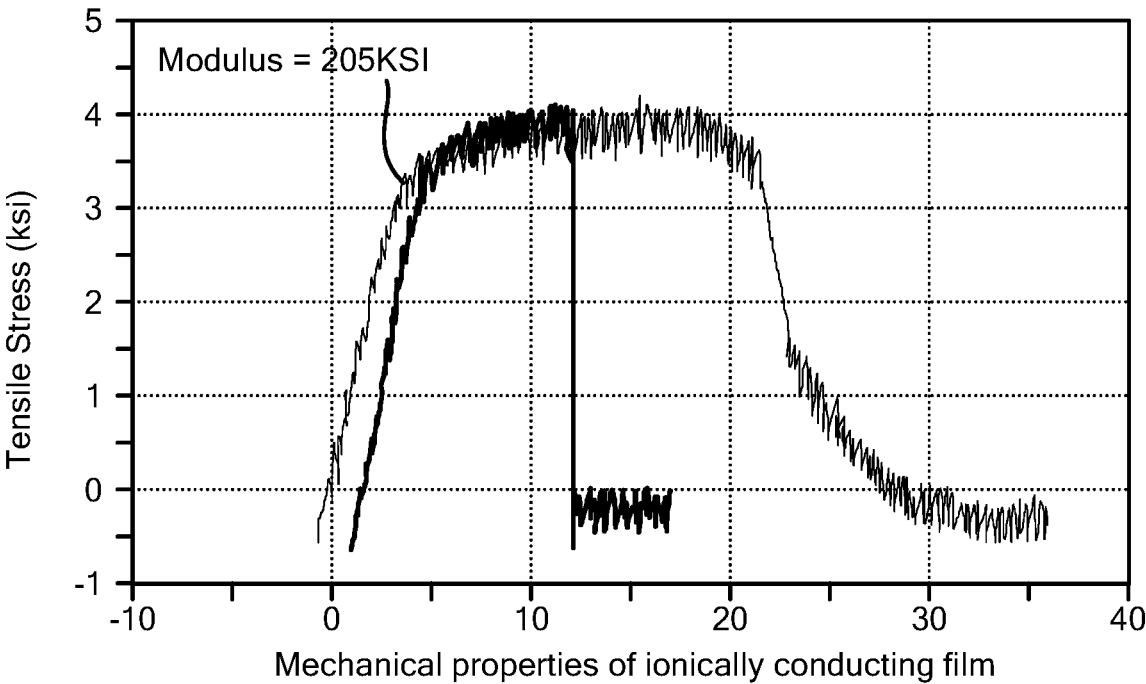
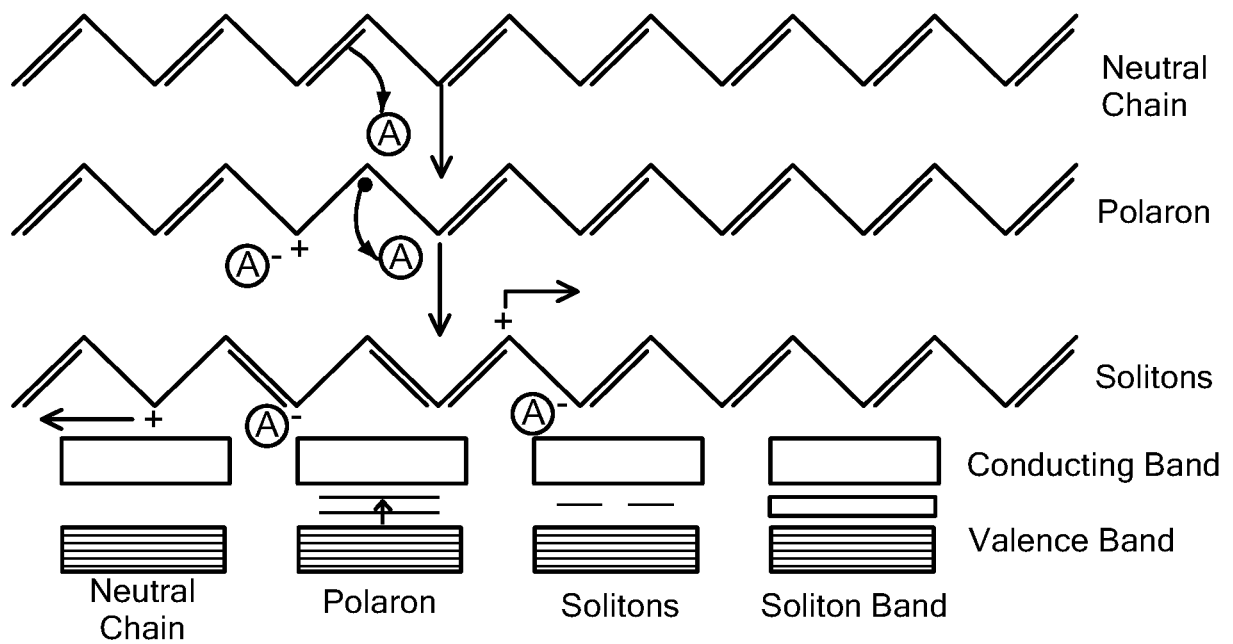
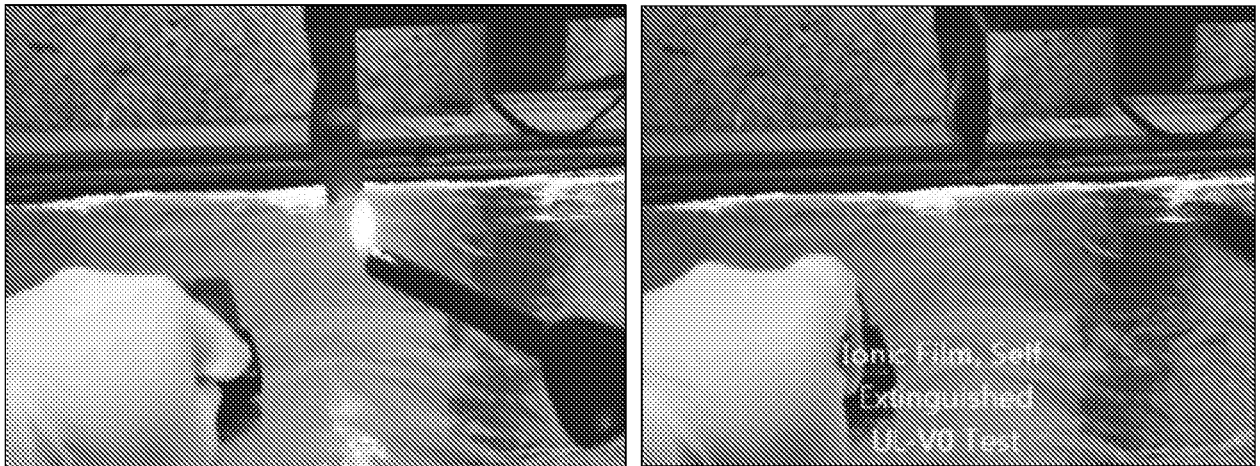


FIG. 7

**FIG. 8**

Ionic Film Passes UL-VO Flammability Test

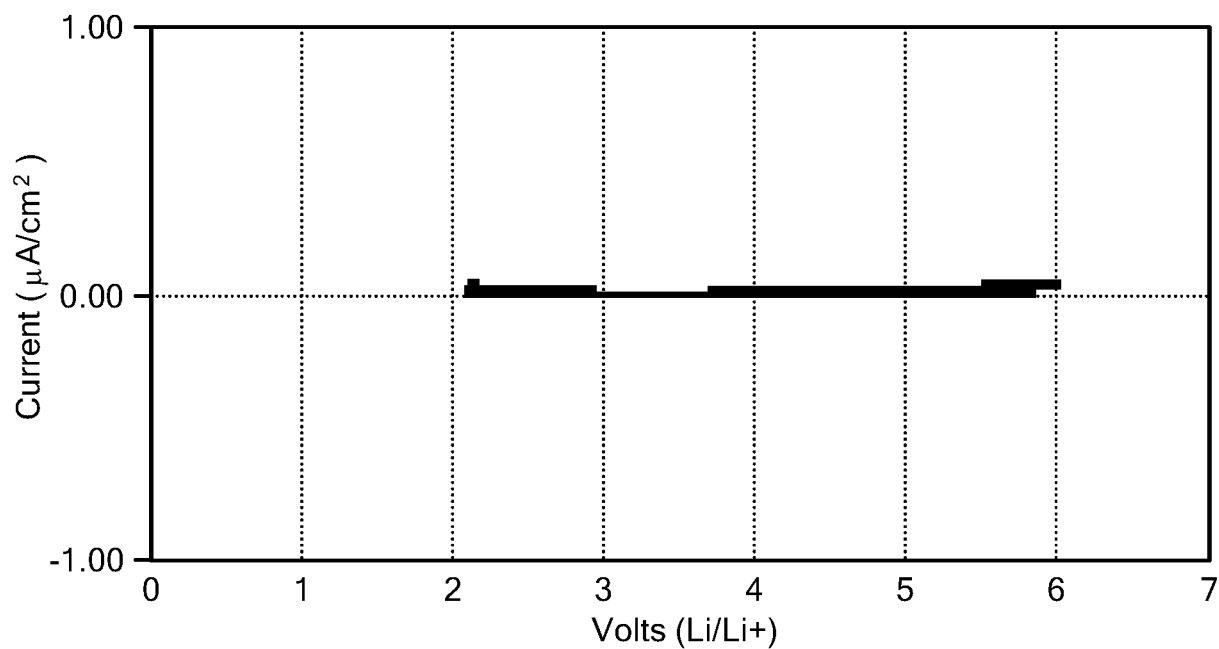


Flame Applied to Ionic Film

Flame Self Extinguished in 2 sec.

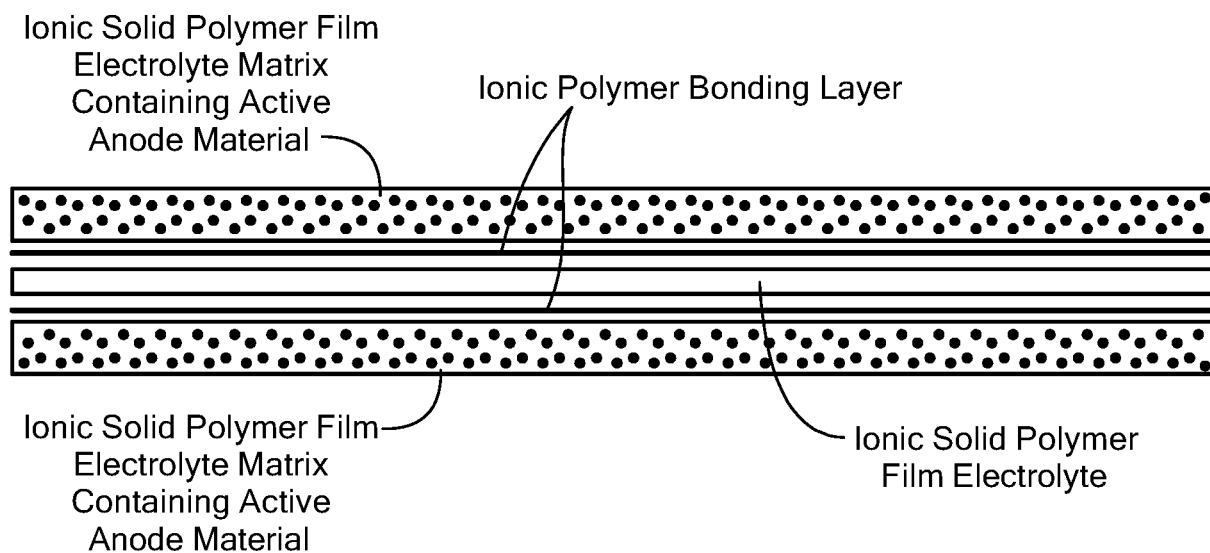
UL94 Flammability test

FIG. 9



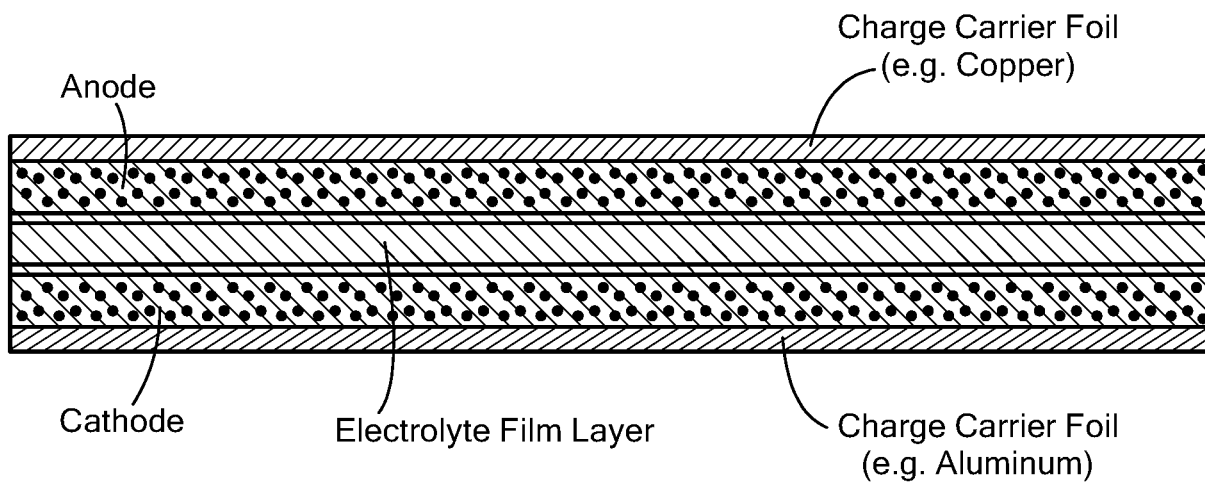
Cyclic Voltammetry of Ionically Conductive Polymer versus Lithium Metal

FIG. 10



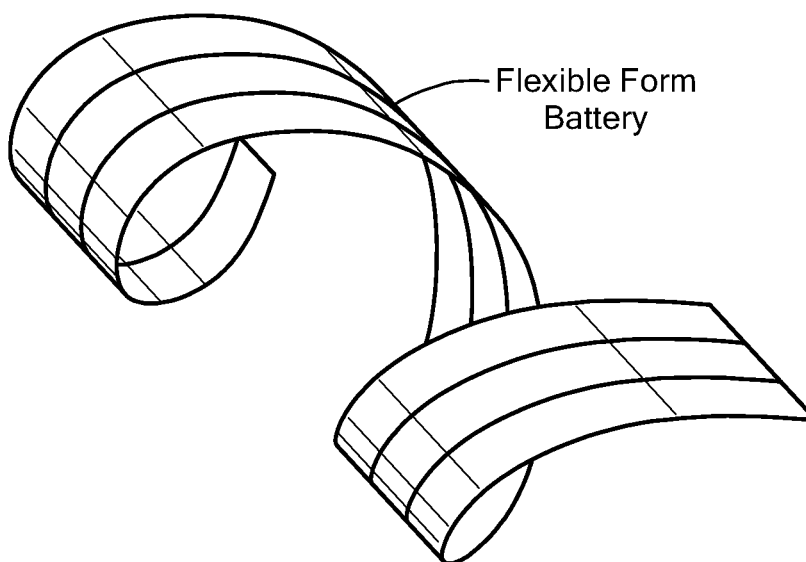
Ionically conductive electrolyte and electrode components

FIG. 11



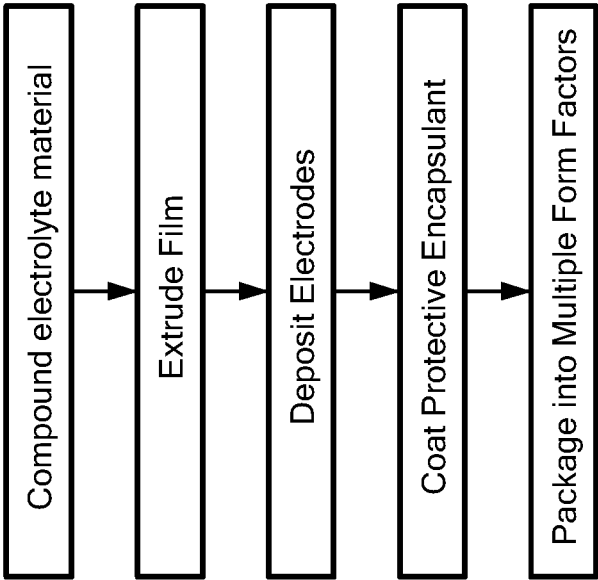
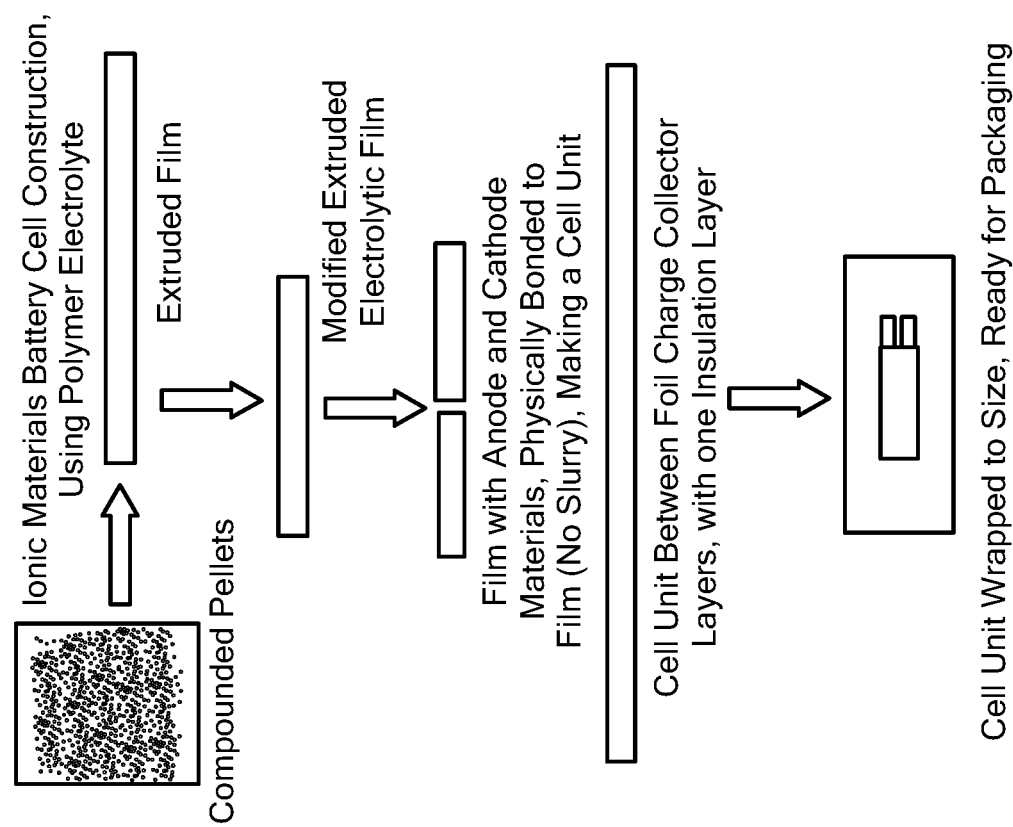
Solid State Battery-Electrode and electrolyte bonded together

FIG. 12



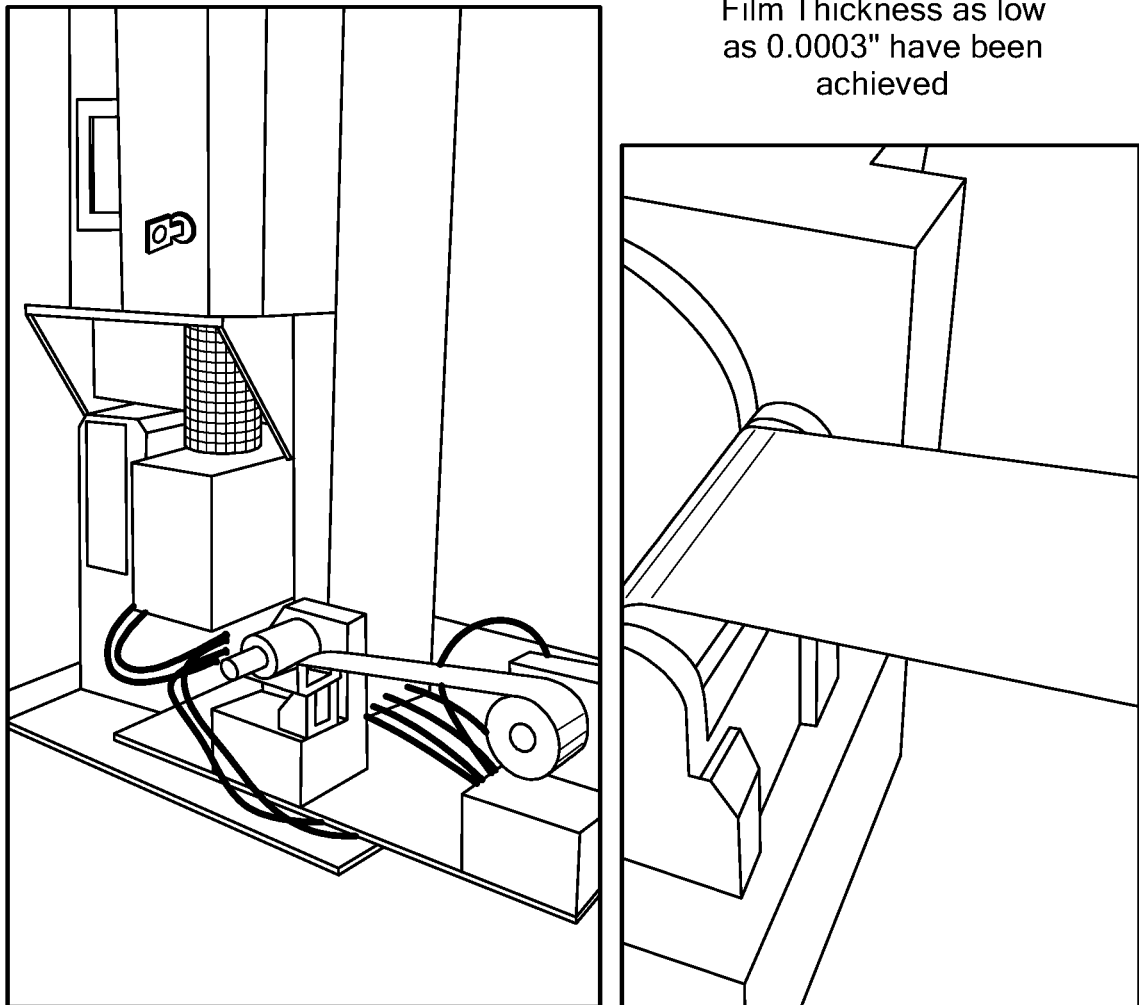
Flexible Form of Battery

FIG. 13



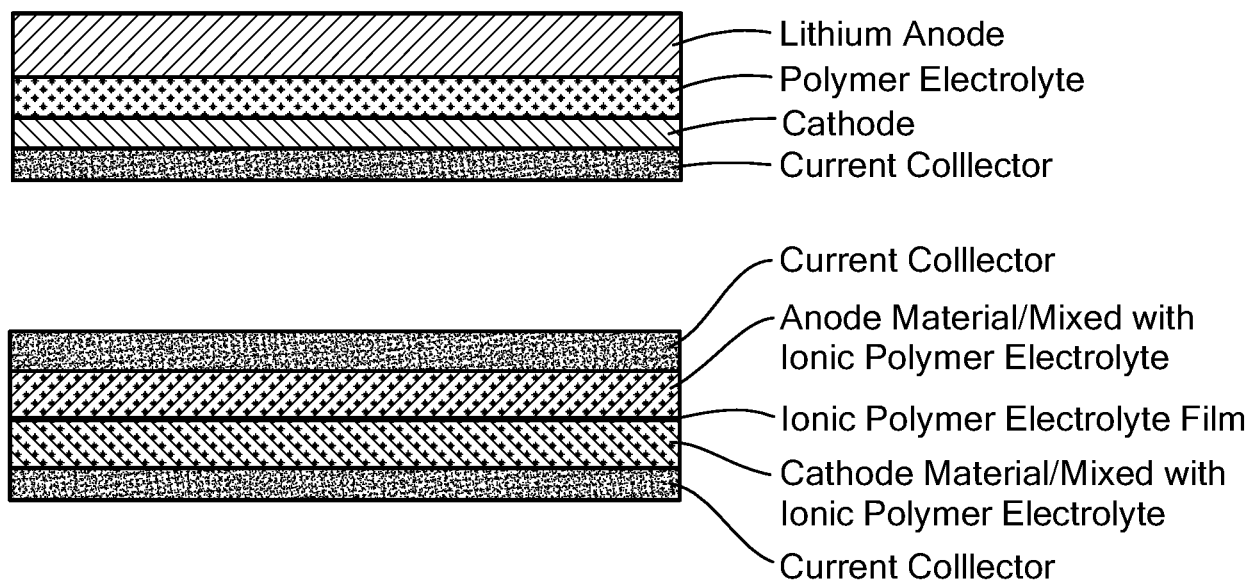
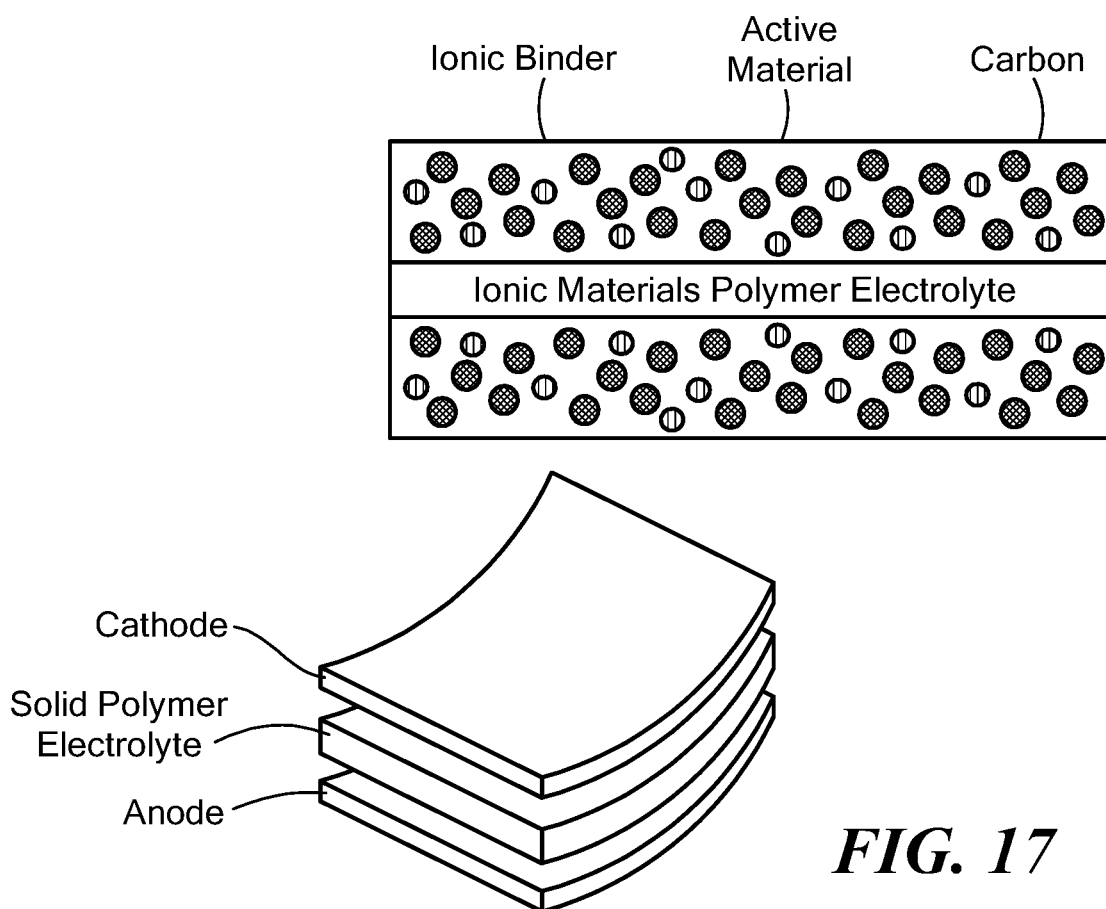
Battery Manufacture

FIG. 14



Extrusion Process

FIG. 15

**FIG. 16****FIG. 17**

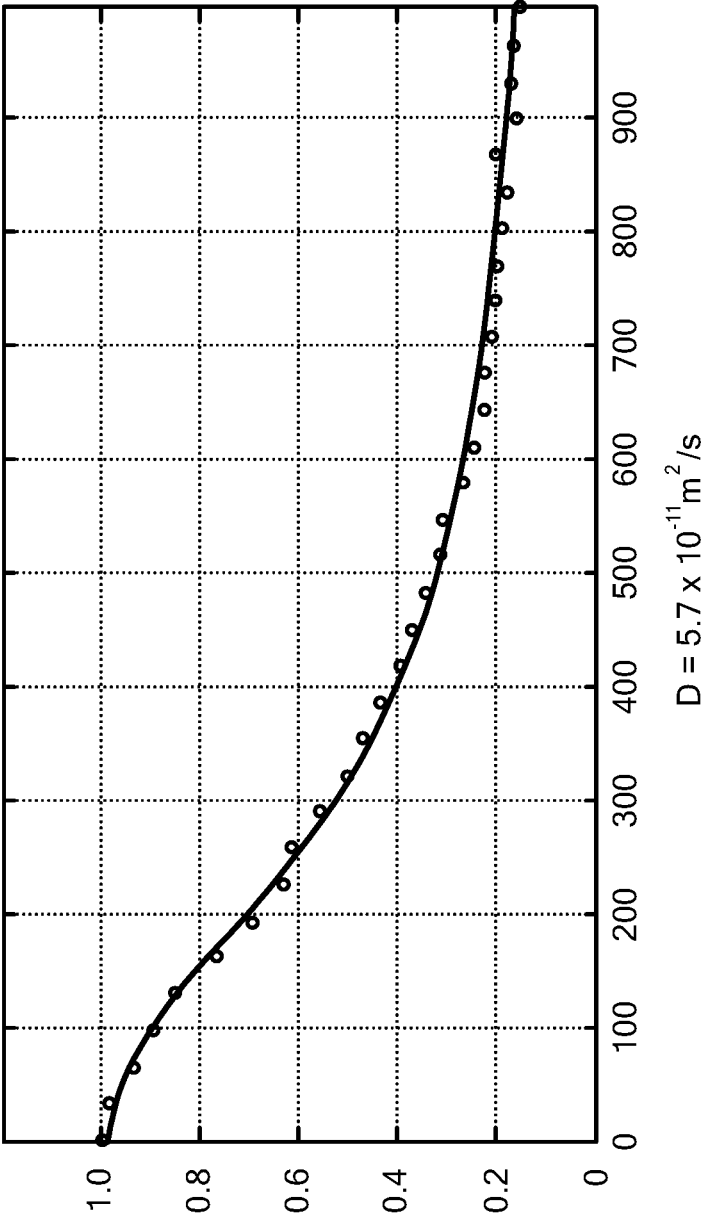
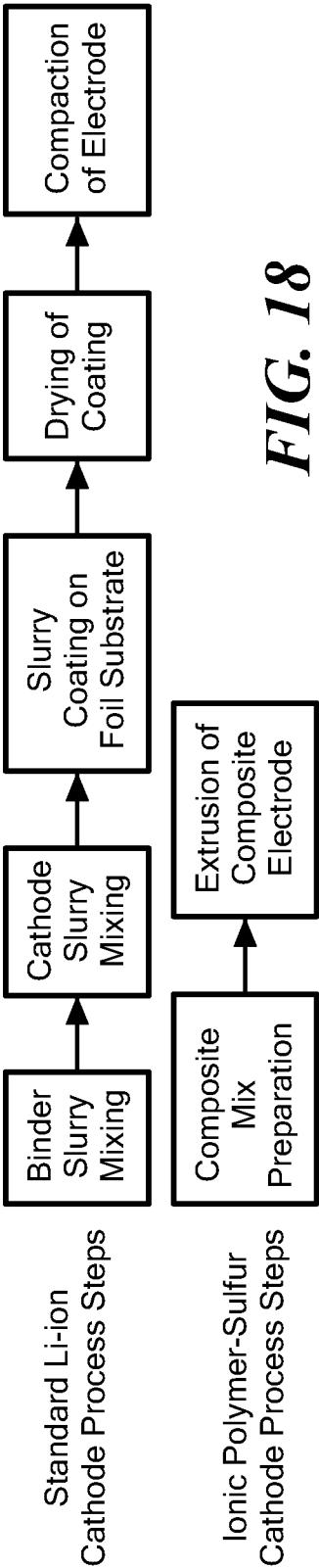
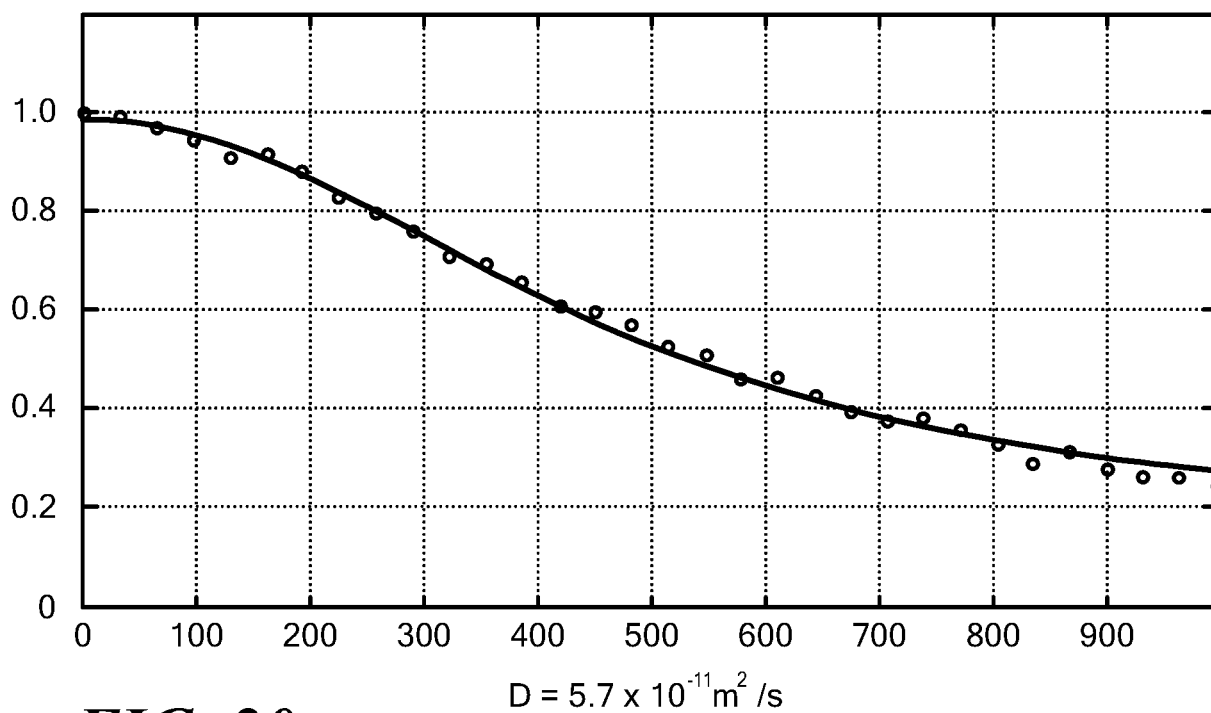
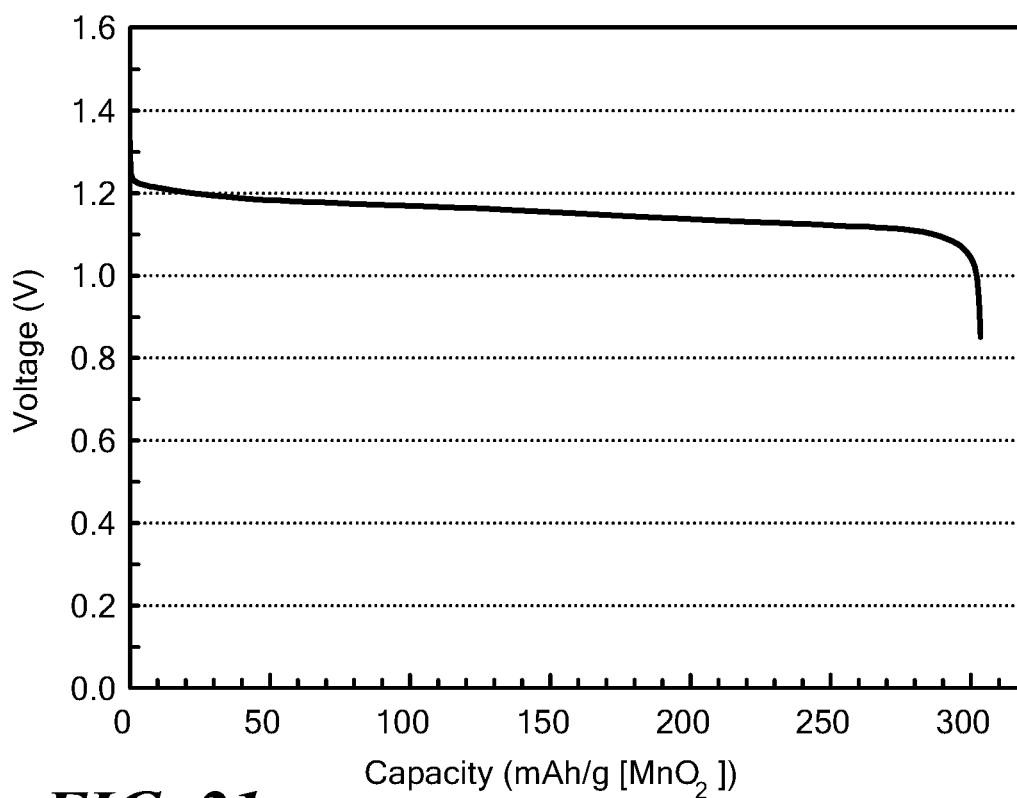
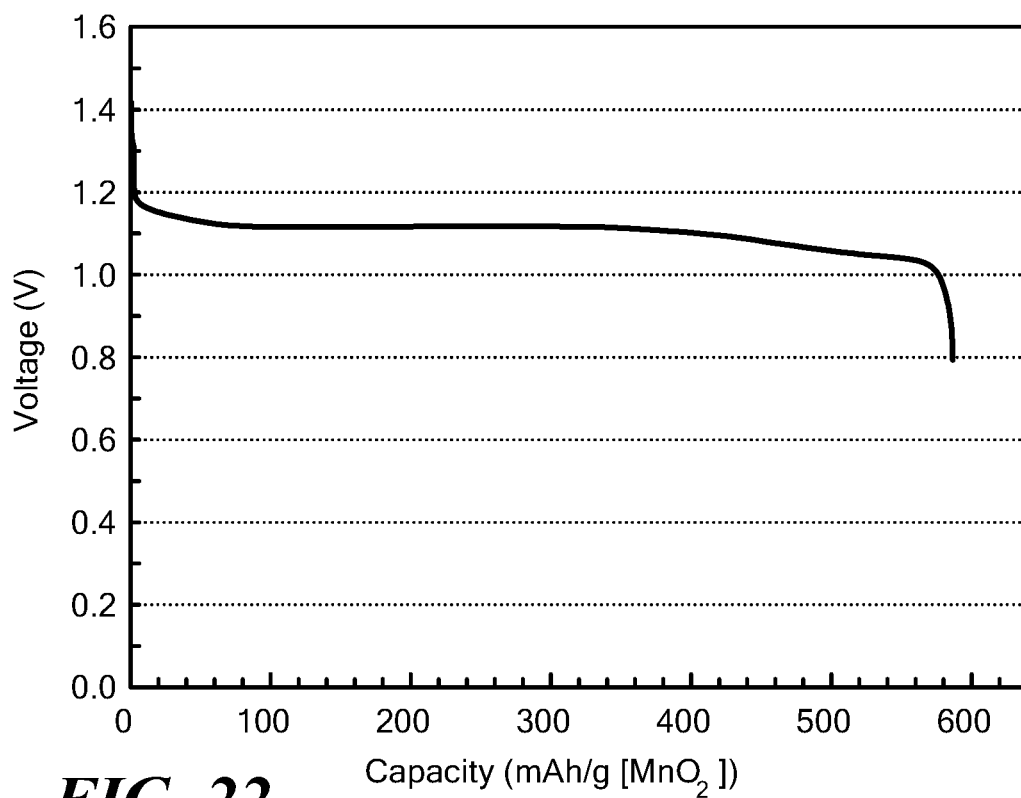
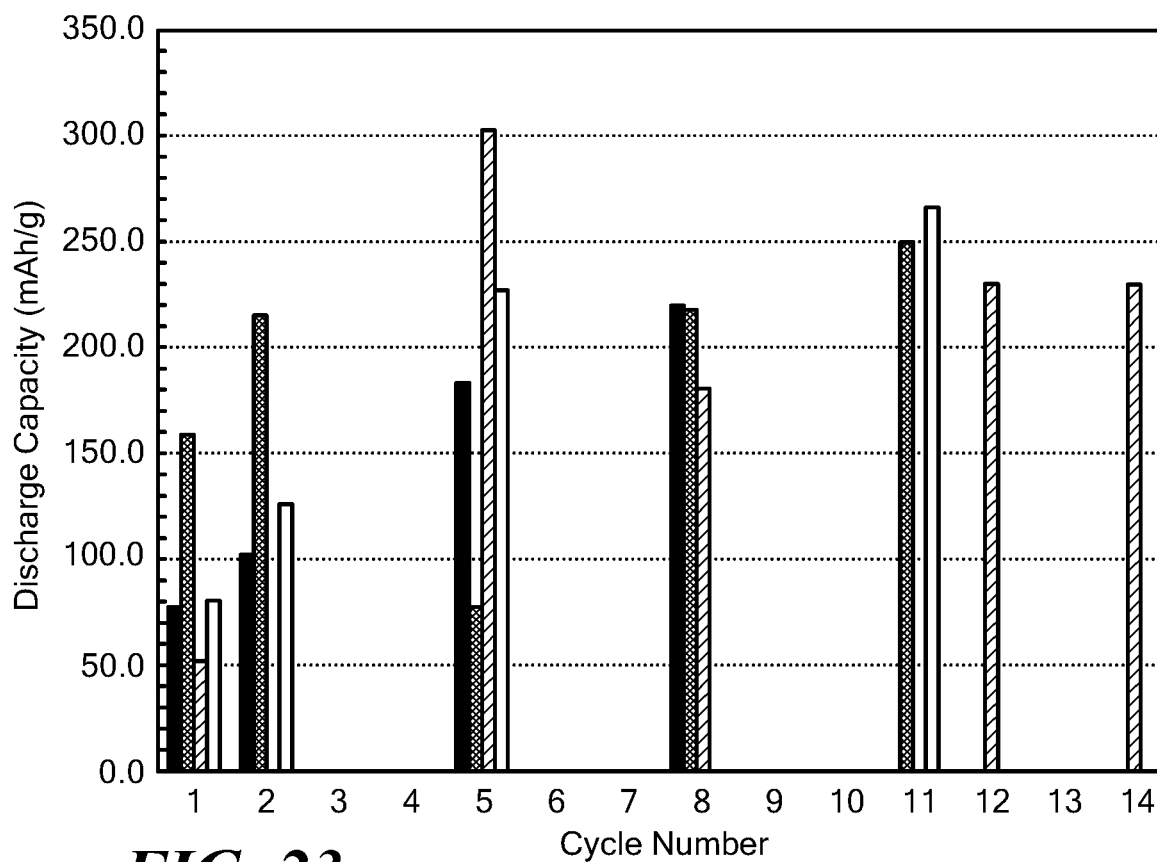
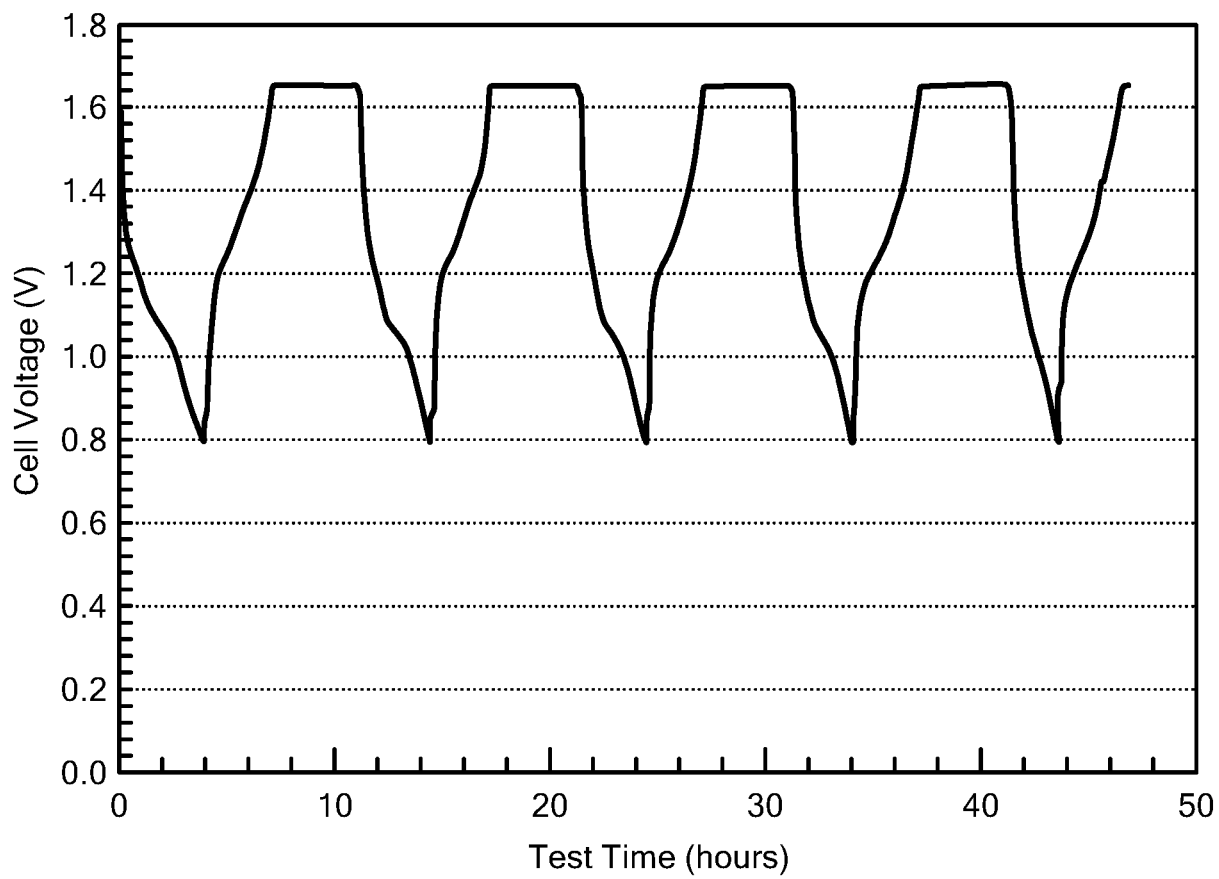


FIG. 19

**FIG. 20****FIG. 21**

**FIG. 22****FIG. 23**

***FIG. 24***

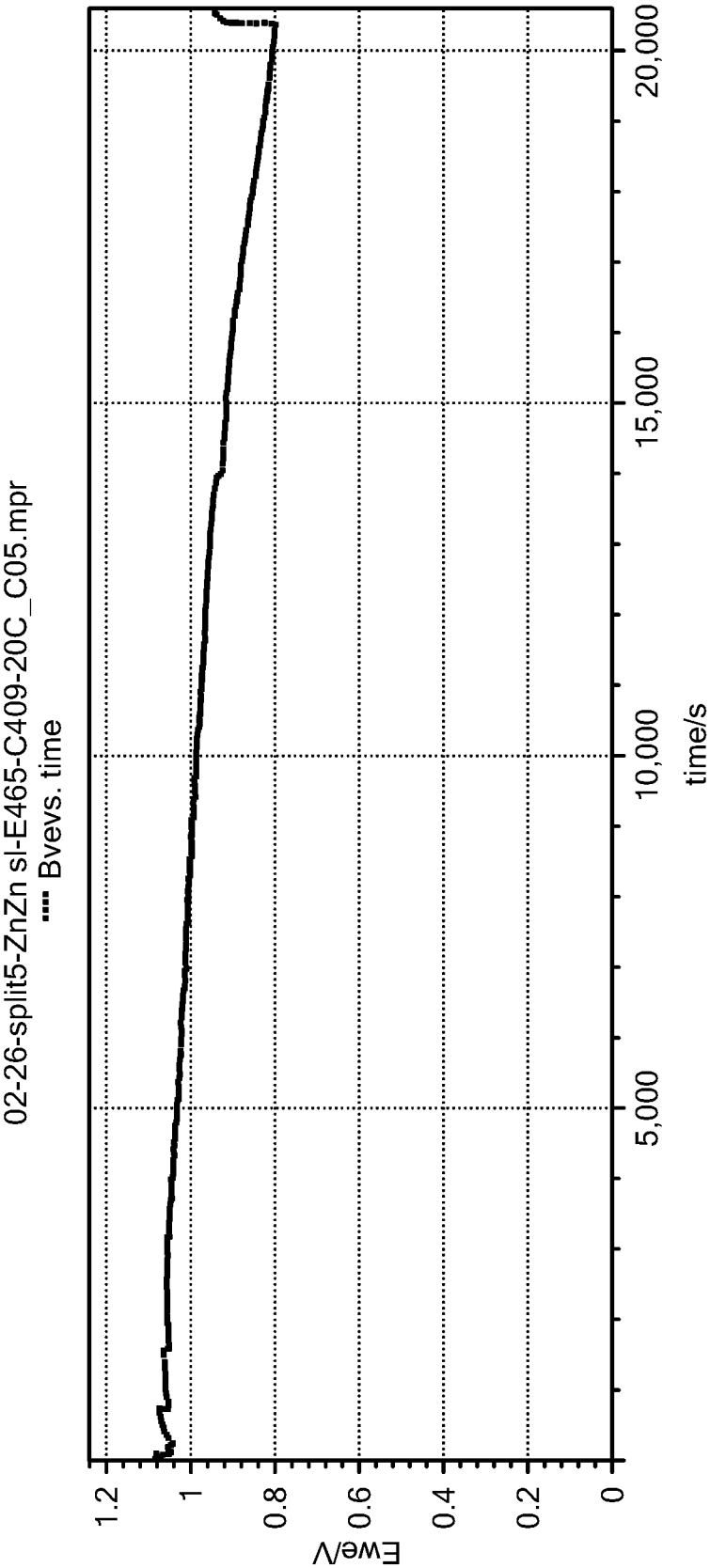
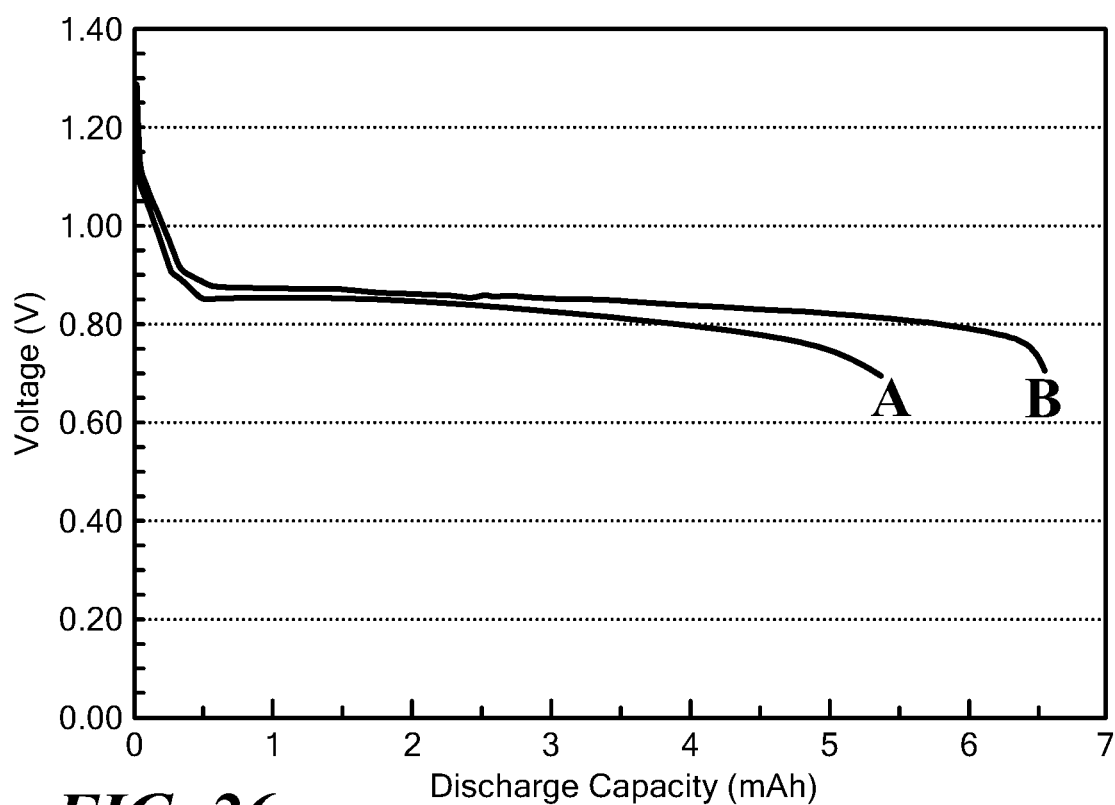
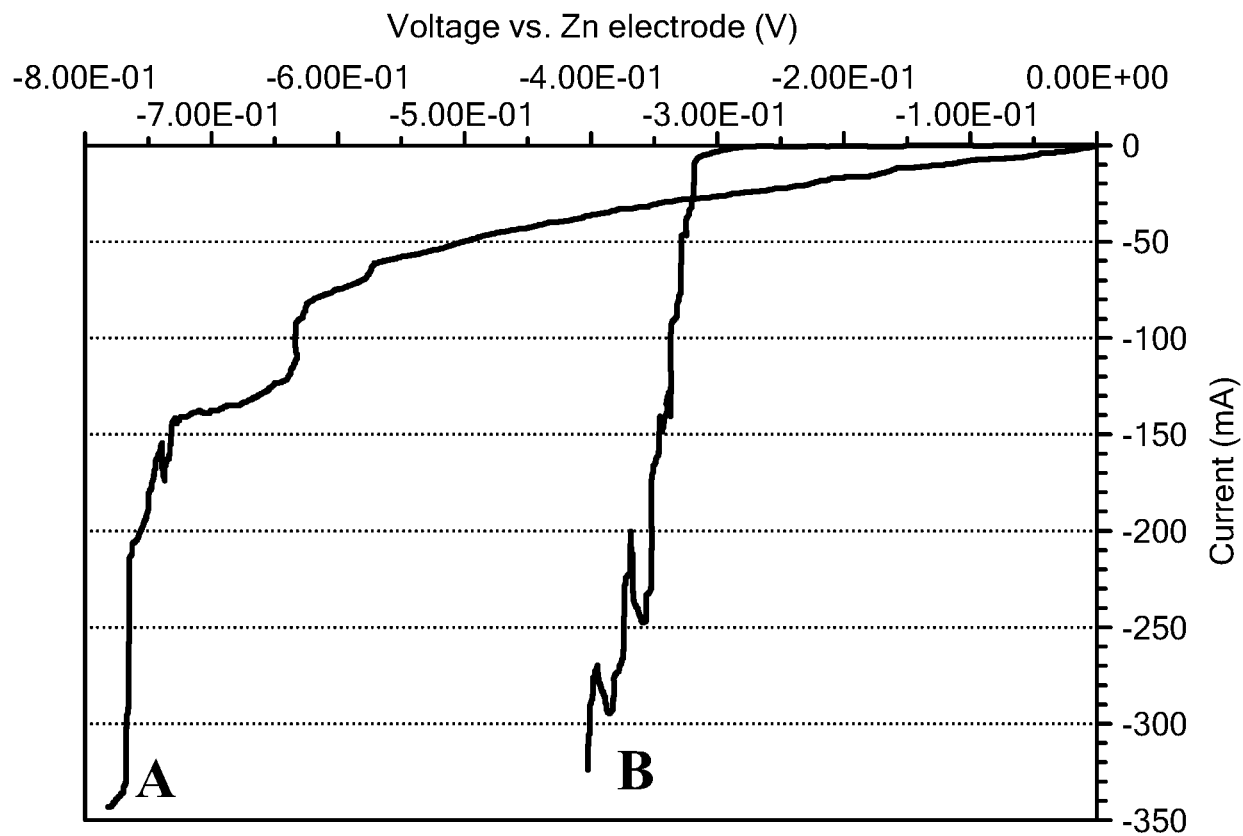
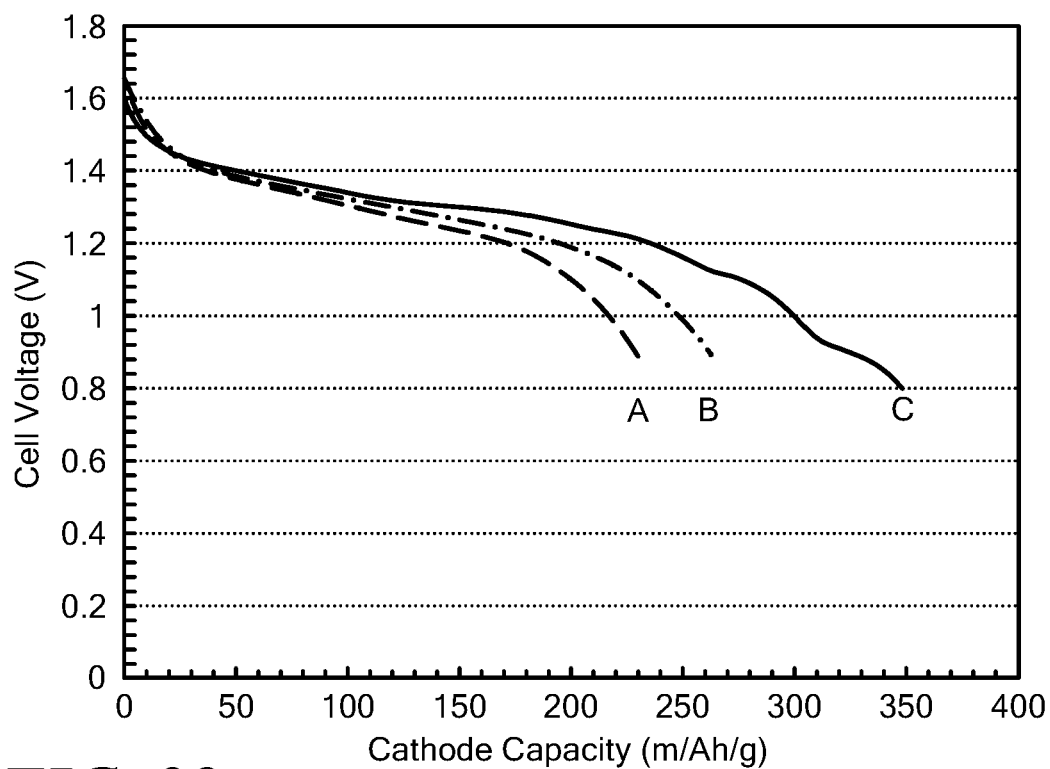
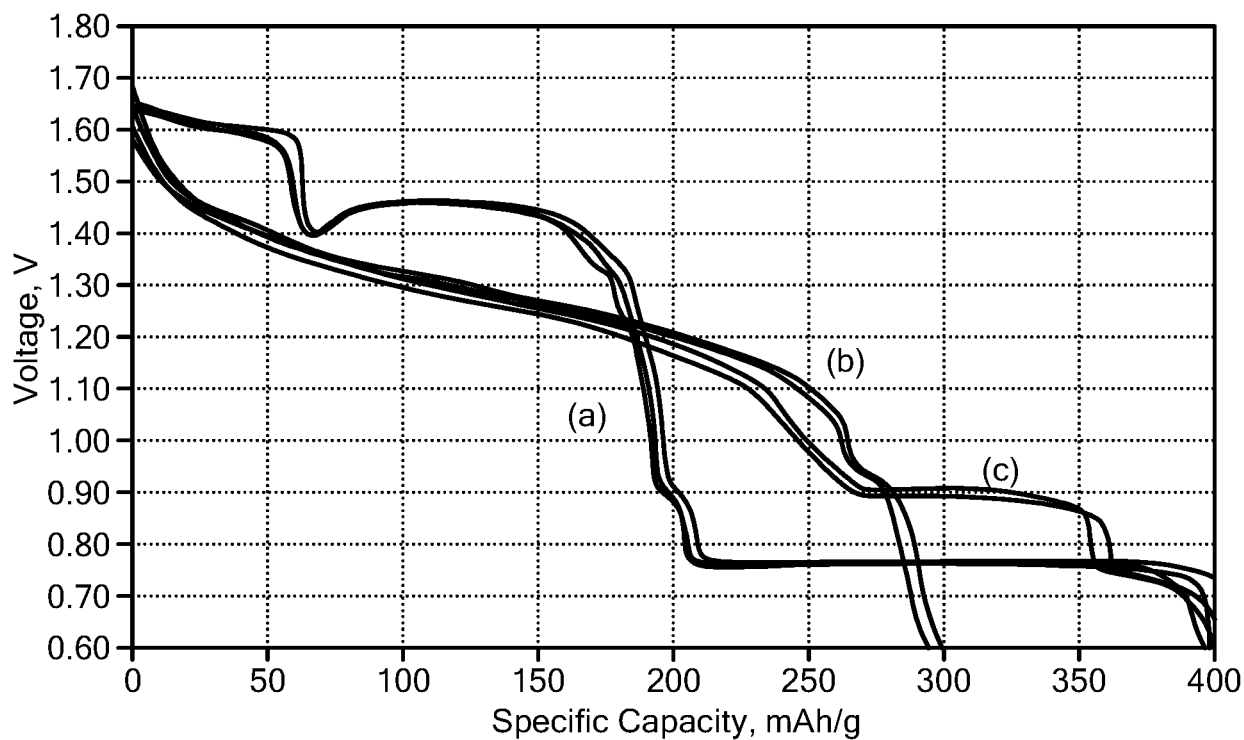
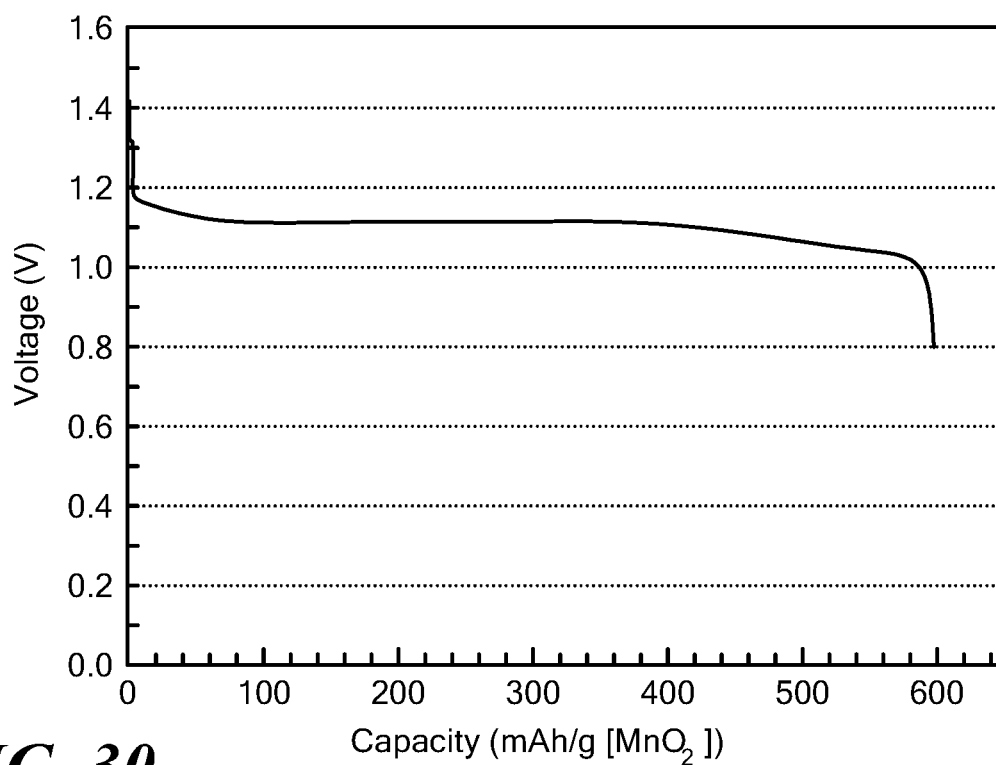
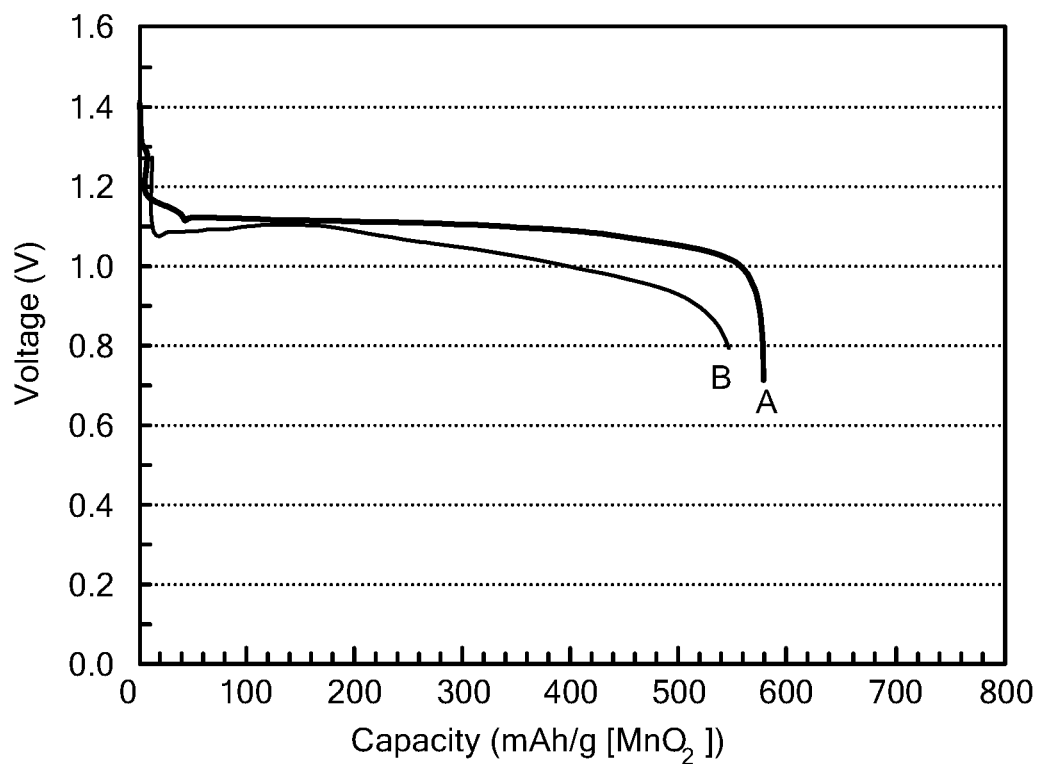
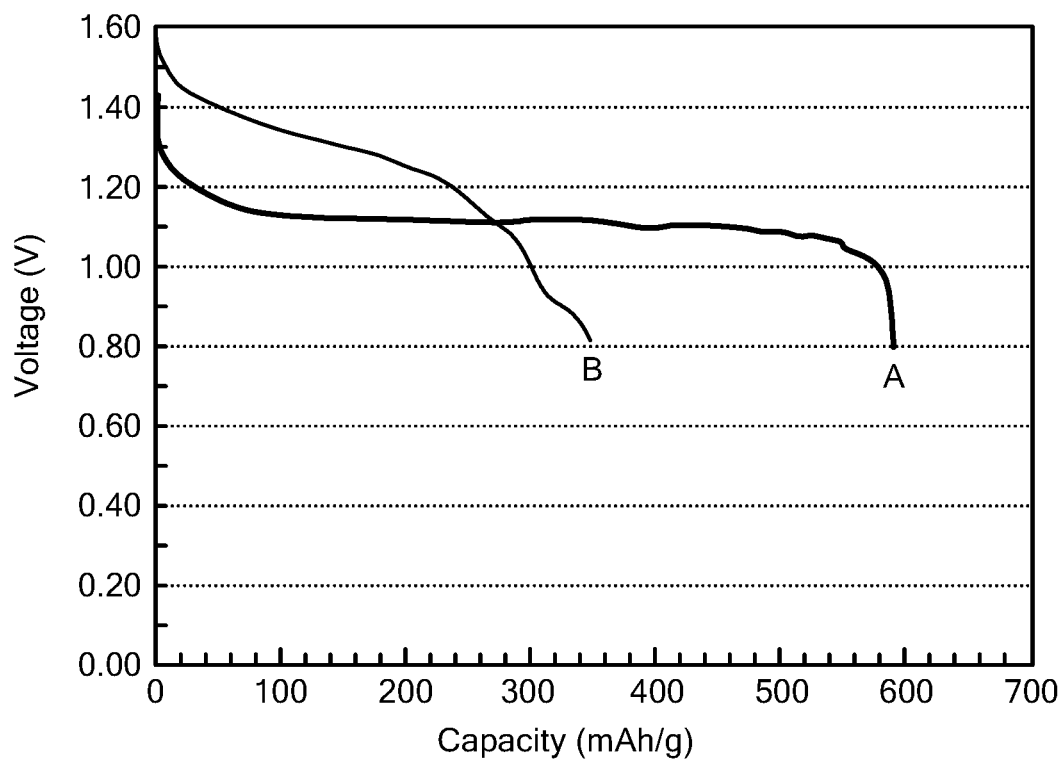
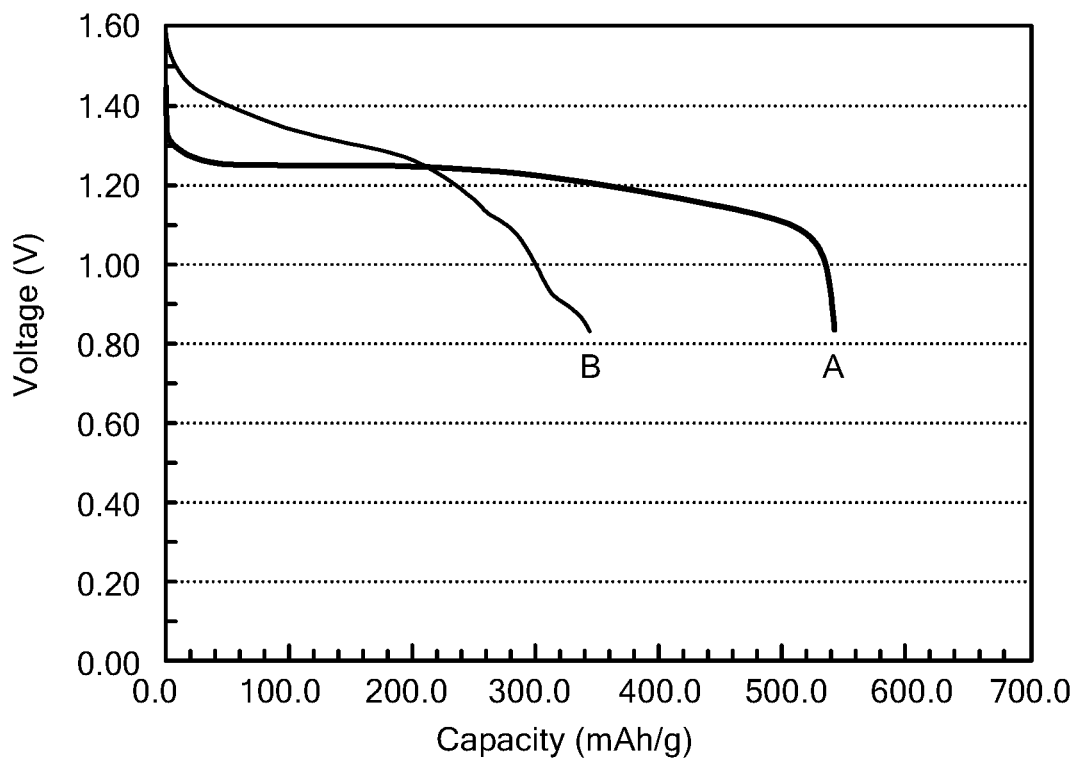


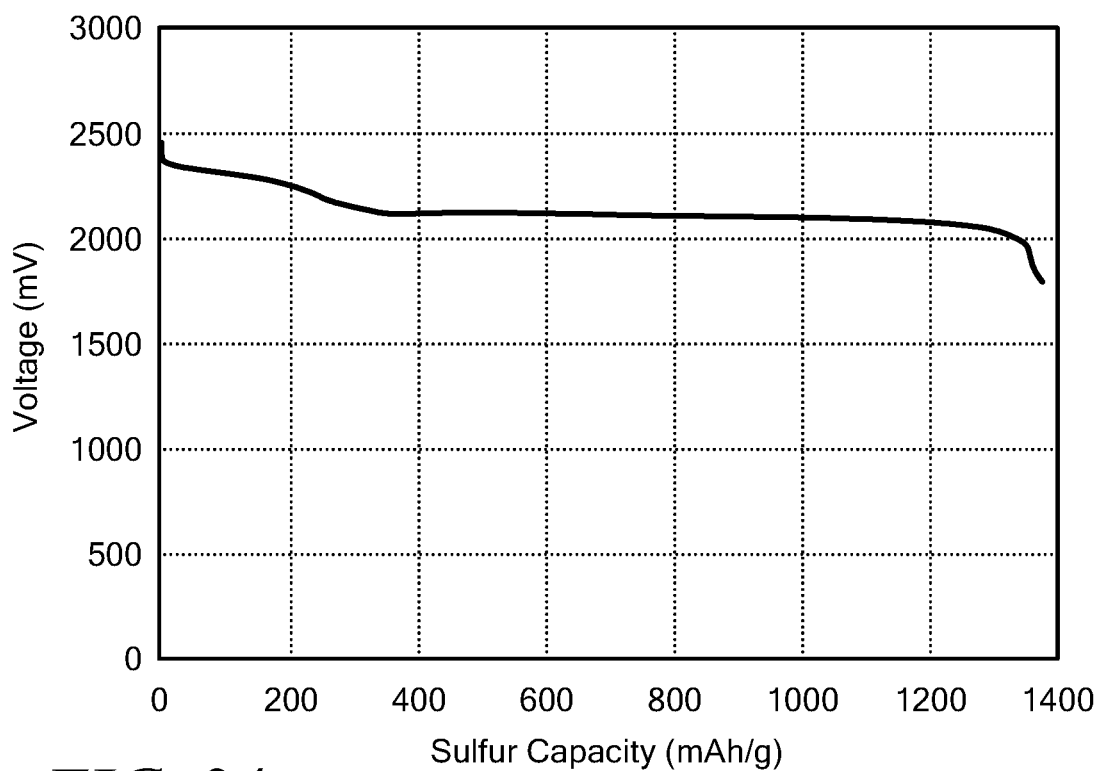
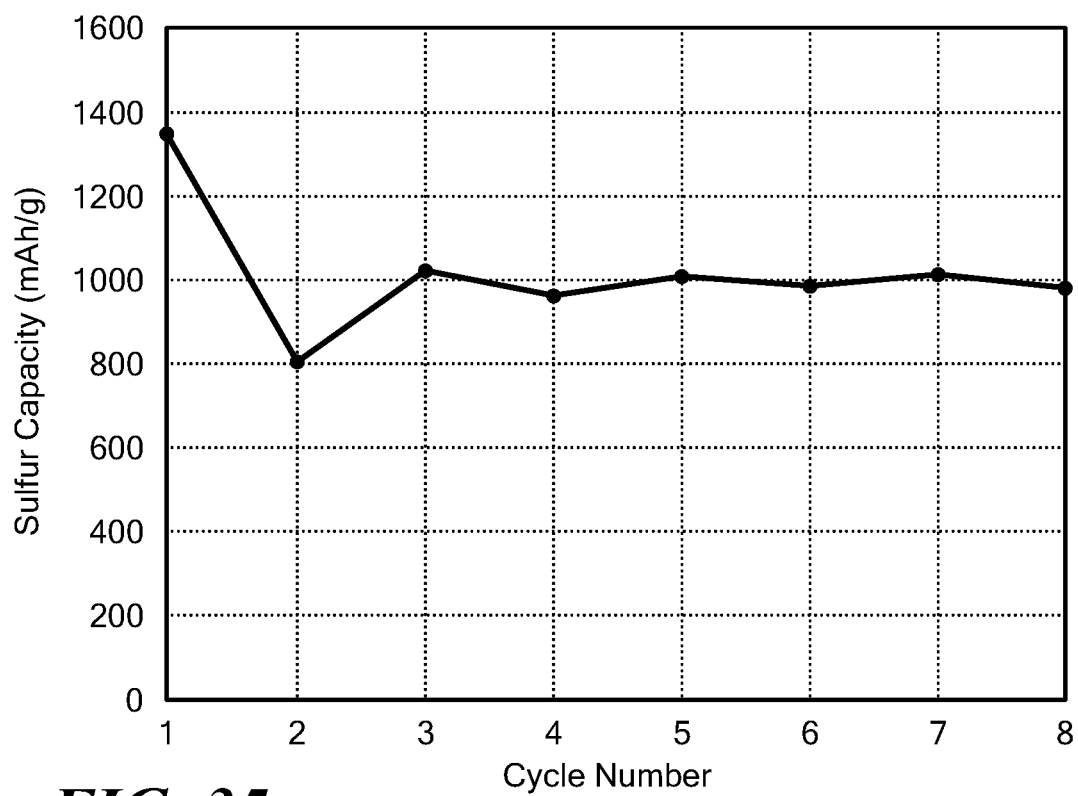
FIG. 25

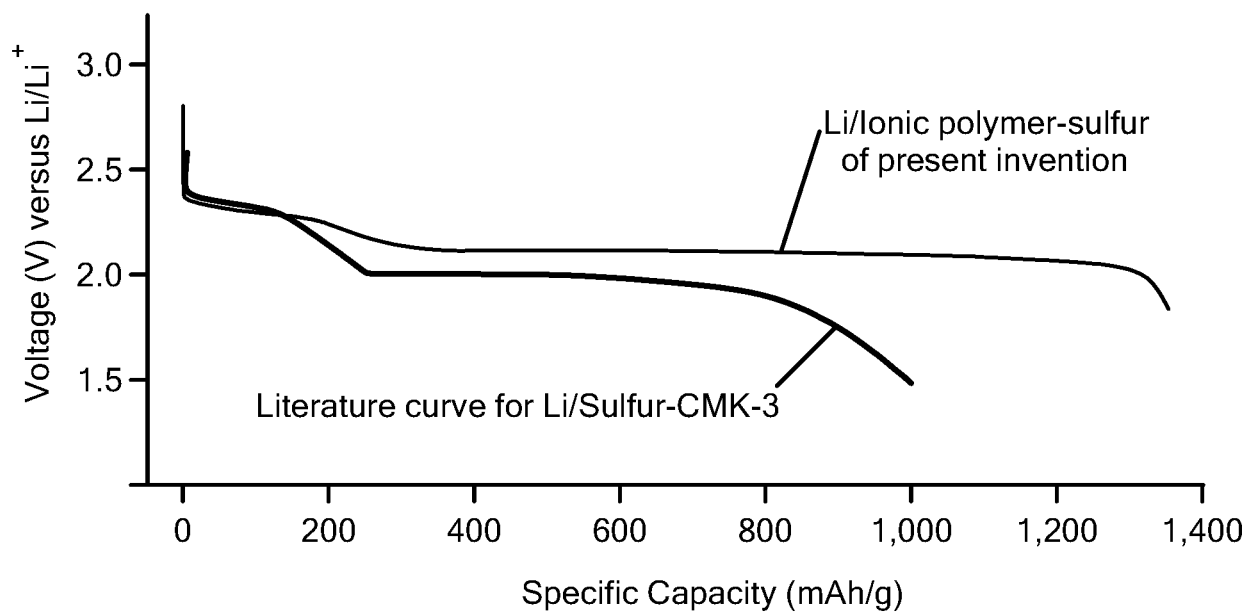
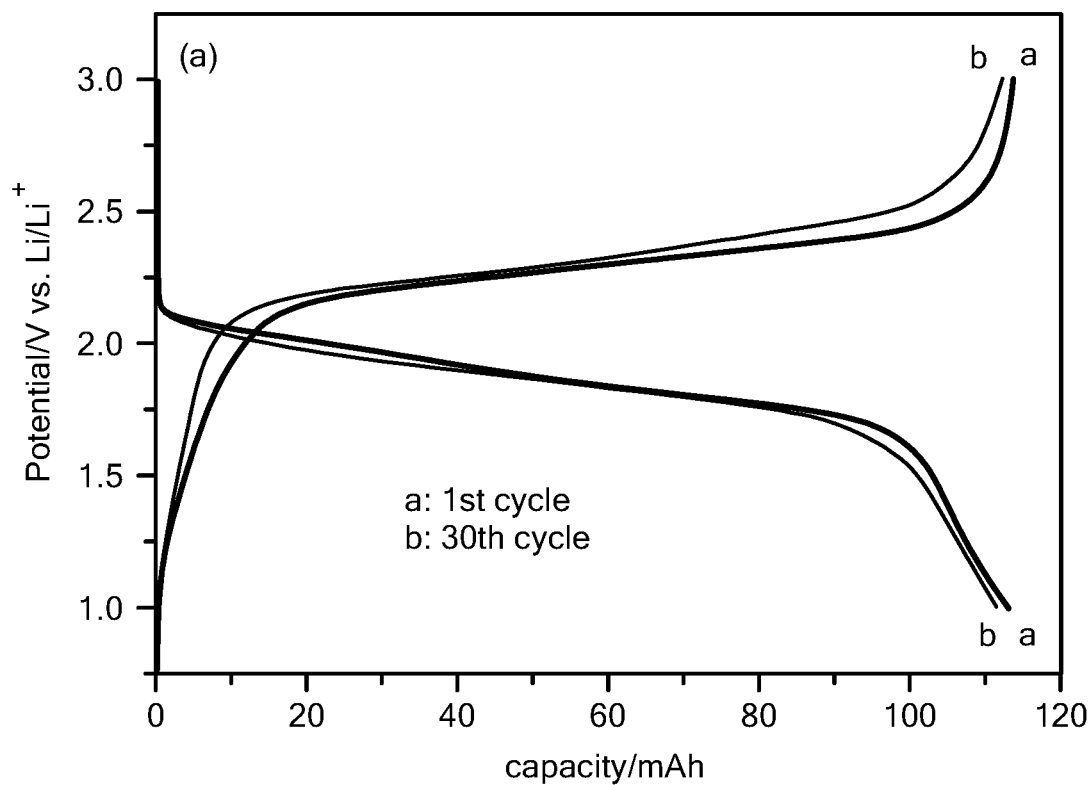
**FIG. 26****FIG. 27**

**FIG. 28****FIG. 29**

**FIG. 30****FIG. 31**

**FIG. 32****FIG. 33**

**FIG. 34****FIG. 35**

**FIG. 36****FIG. 37**

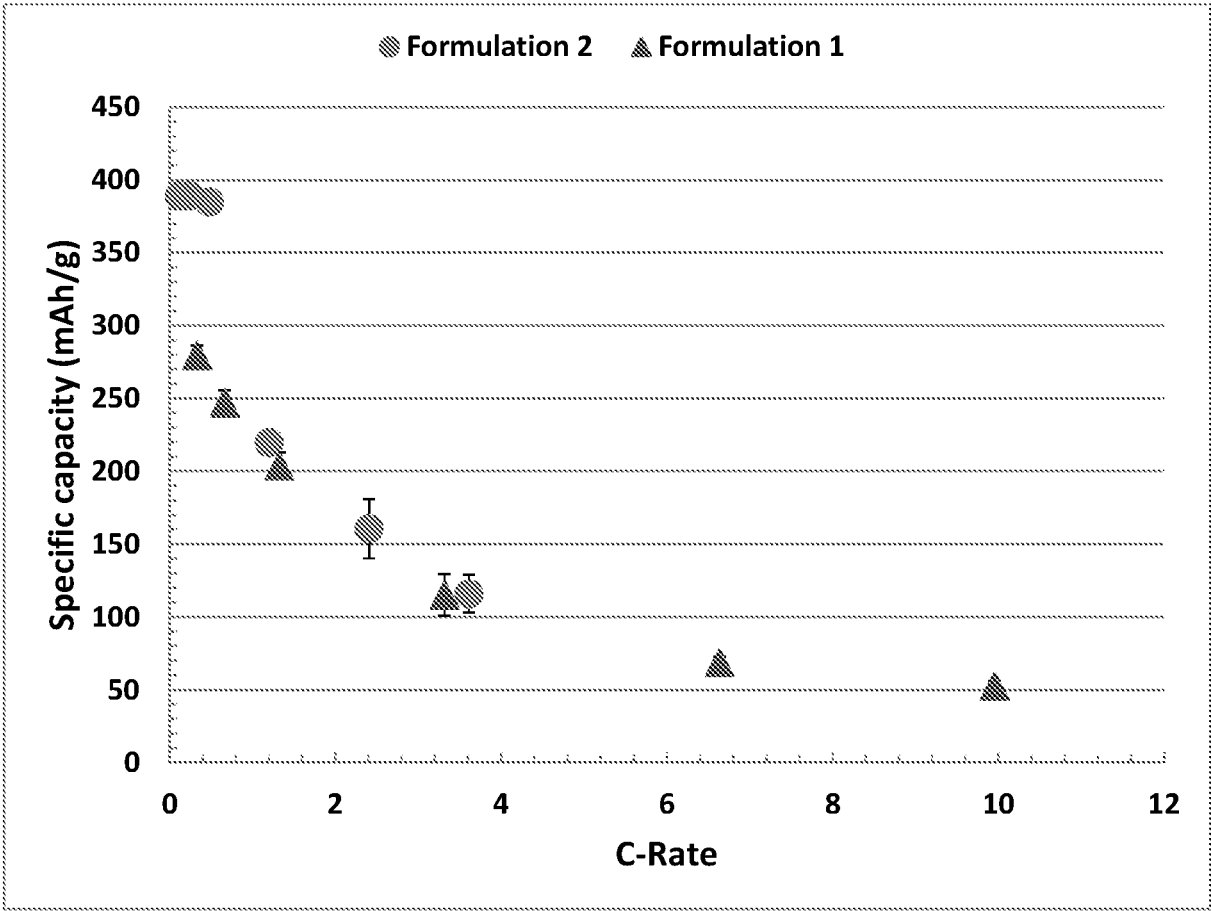


FIG. 38

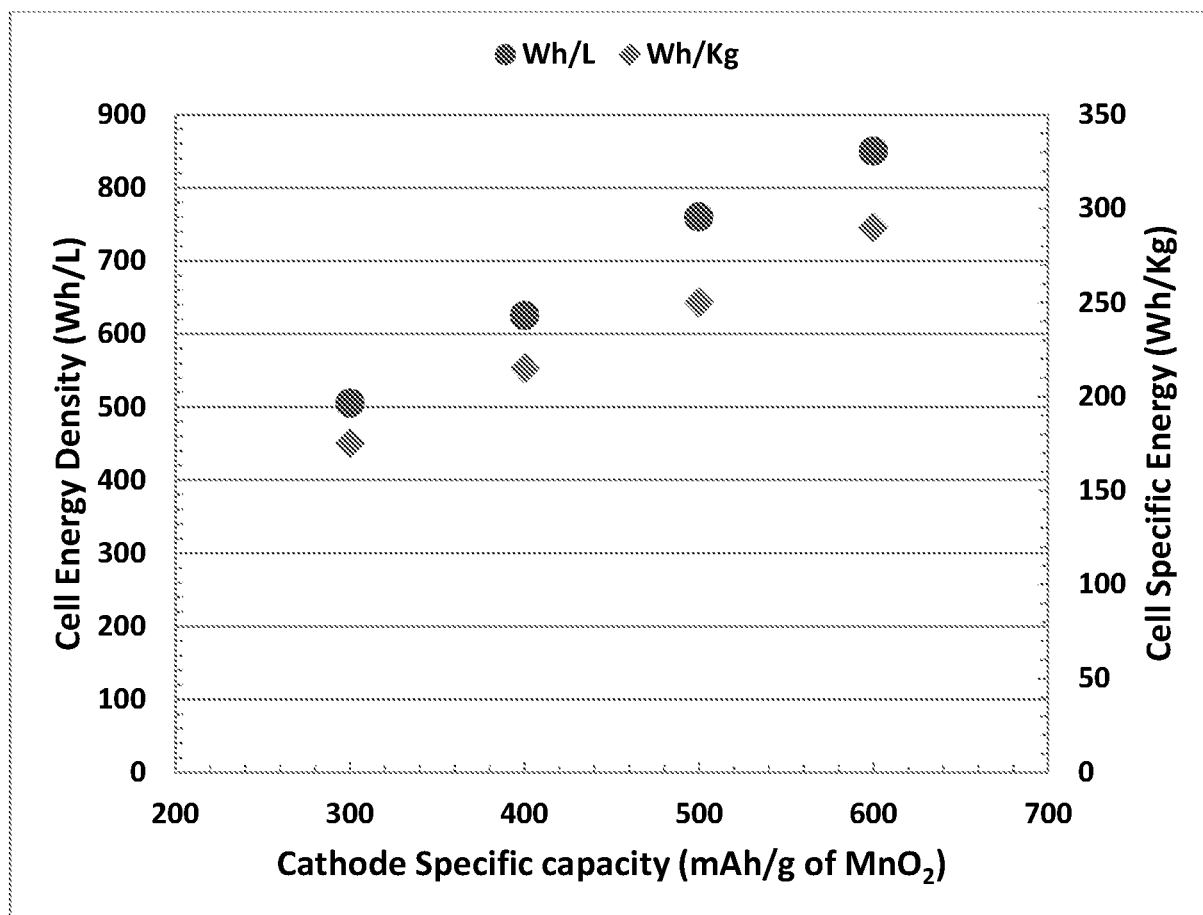


FIG. 39

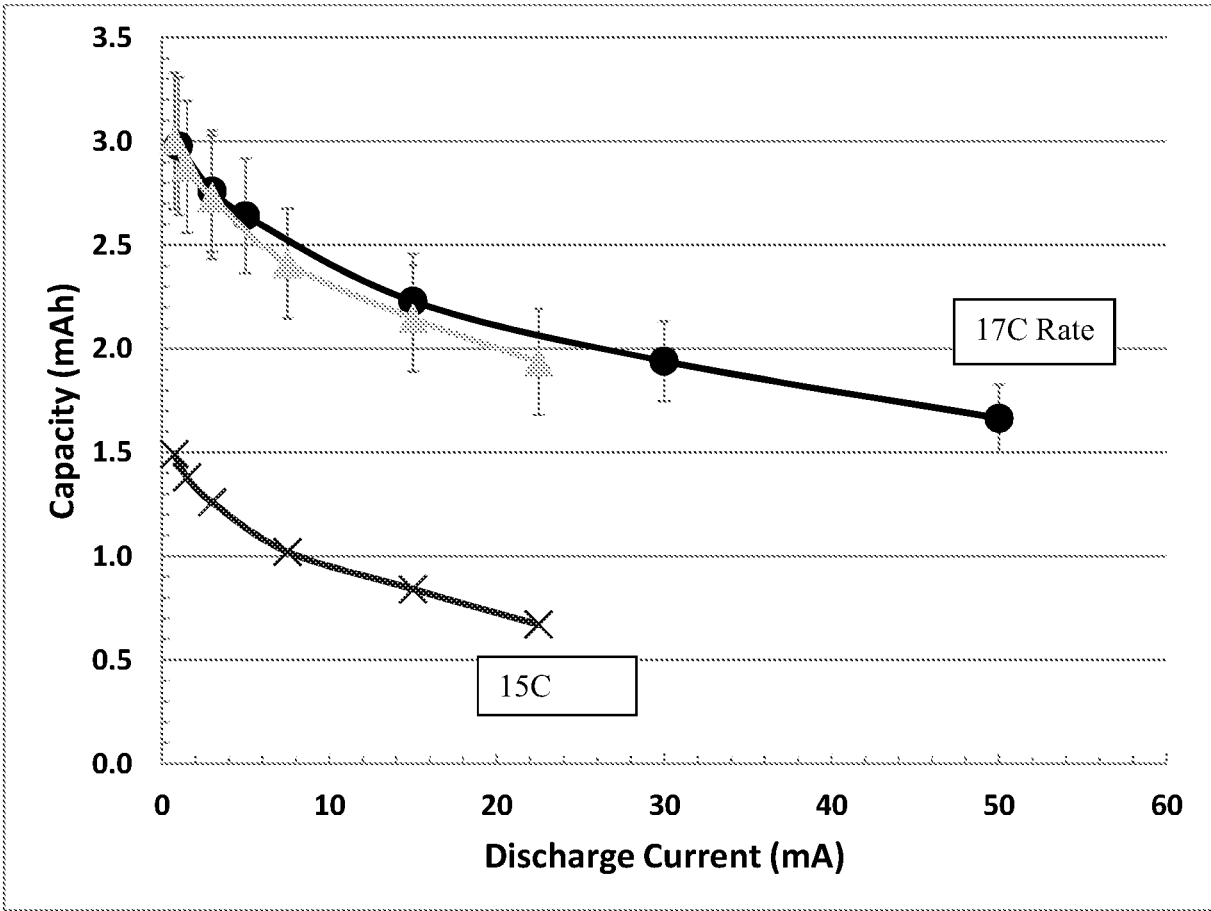


FIG. 40

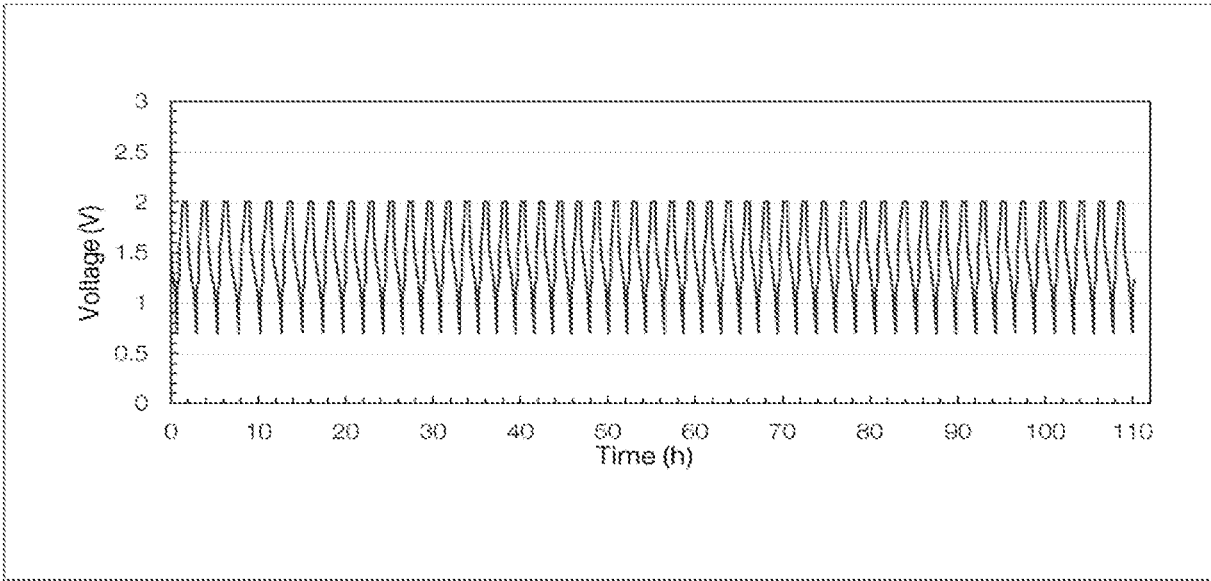


FIG. 41