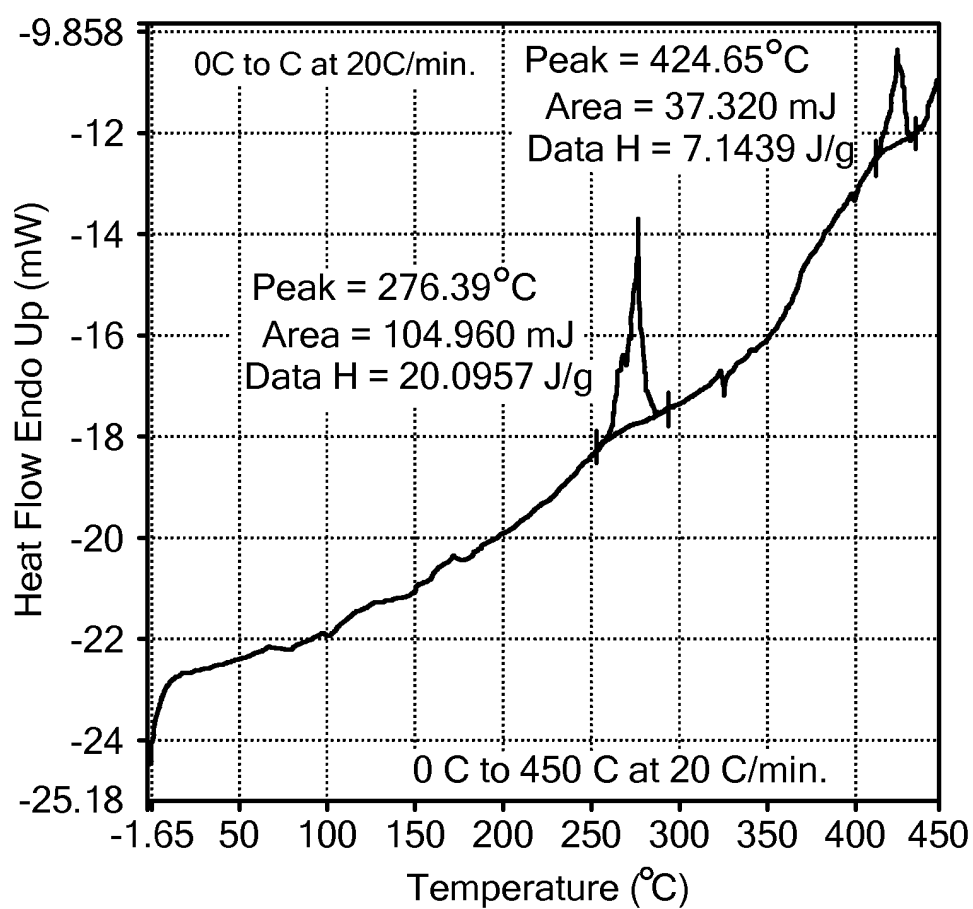
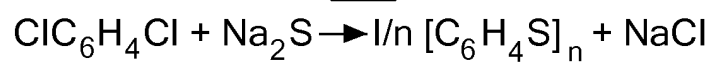
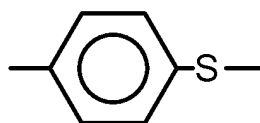


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FIG. 1

Dynamic Scanning Calorimetry Curve of Semicrystalline Polymer

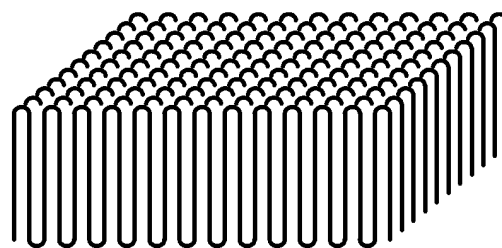
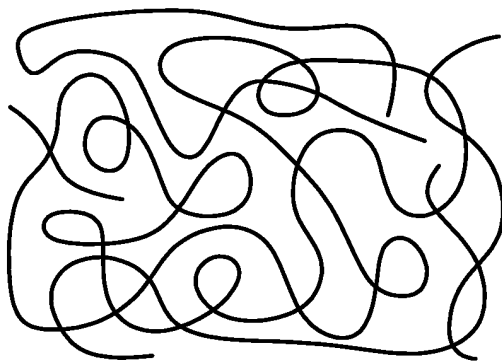
FIG. 2

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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%

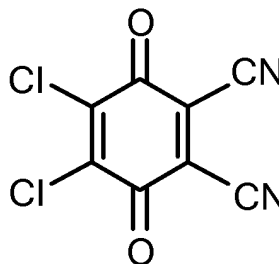
FIG. 3

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

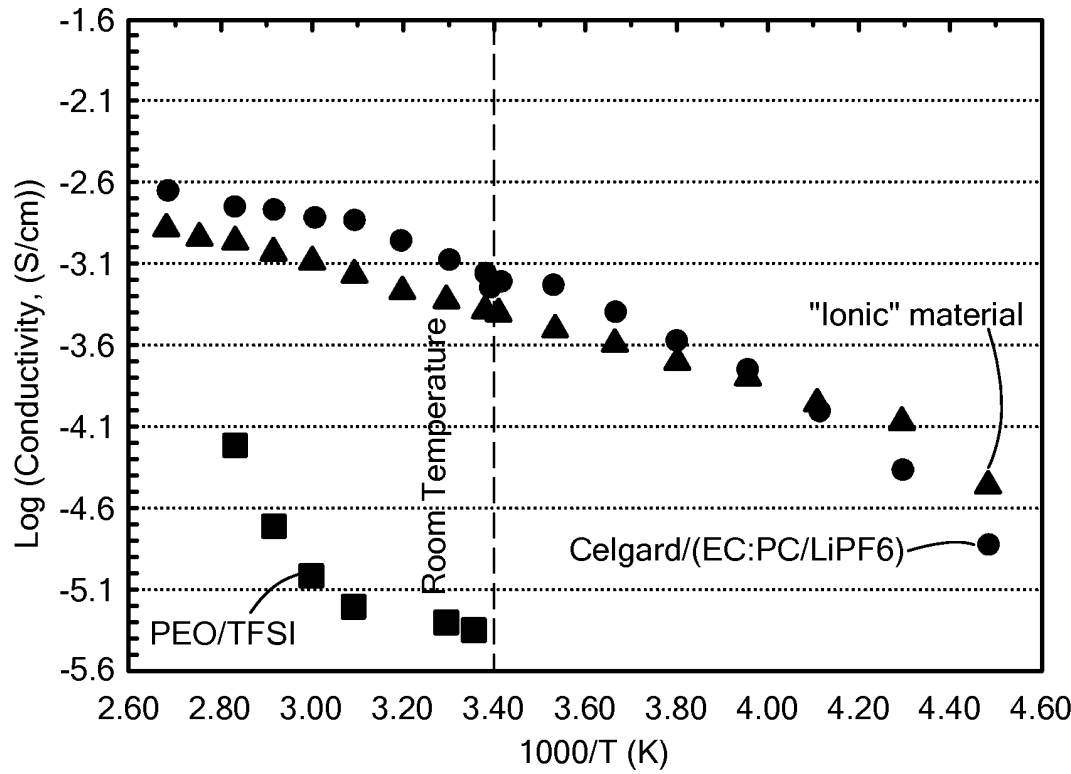


FIG. 6

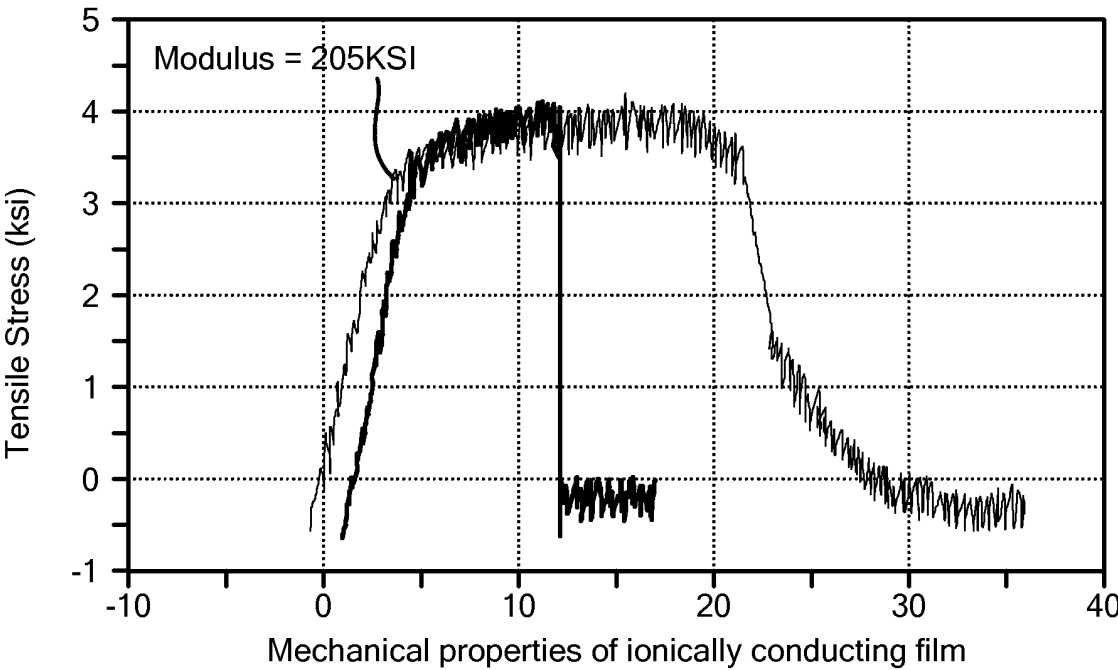
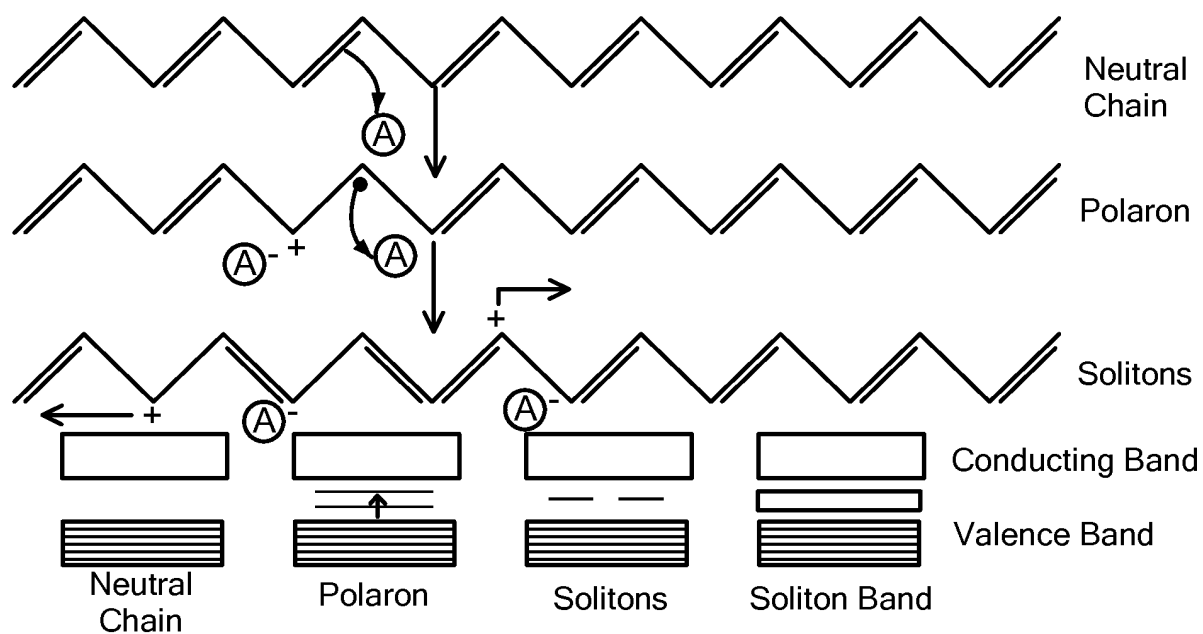
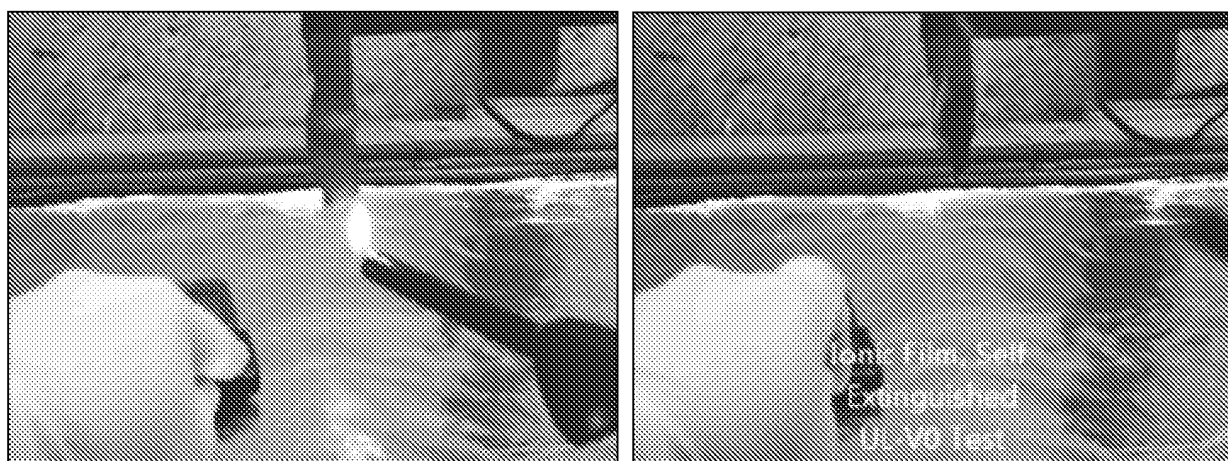


FIG. 7

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**FIG. 8**

Ionic Film Passes UL-VO Flammability Test



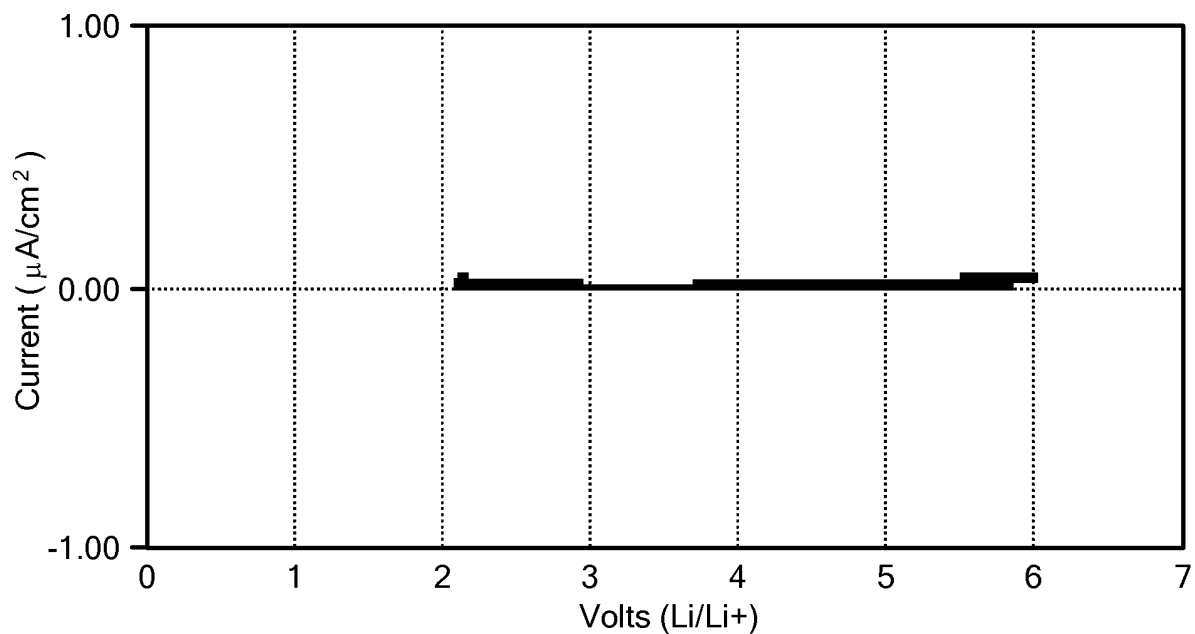
Flame Applied to Ionic Film

Flame Self Extinguished in 2 sec.

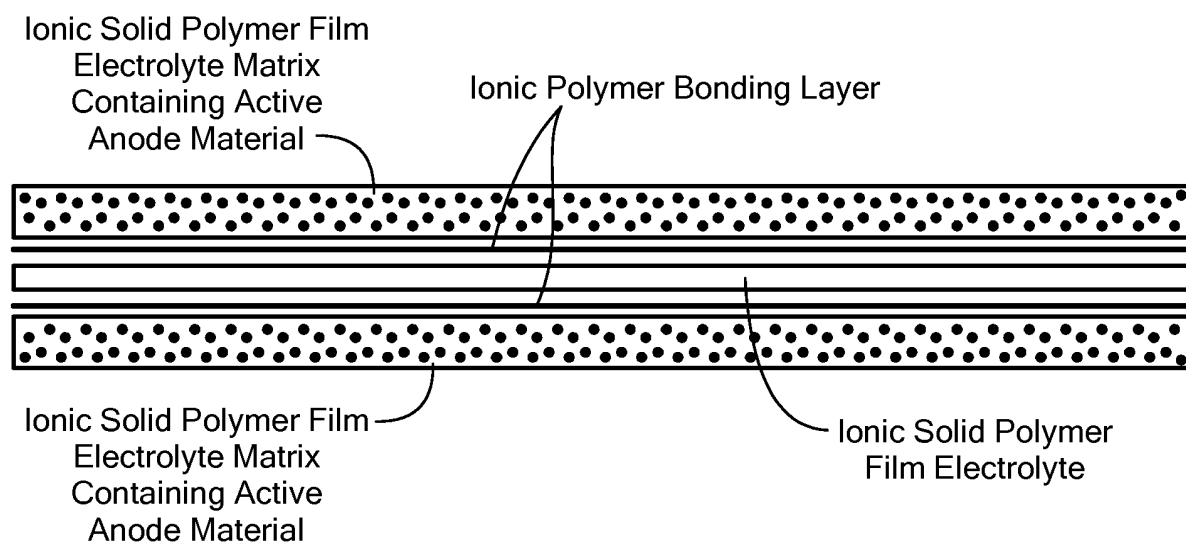
UL94 Flammability test

FIG. 9

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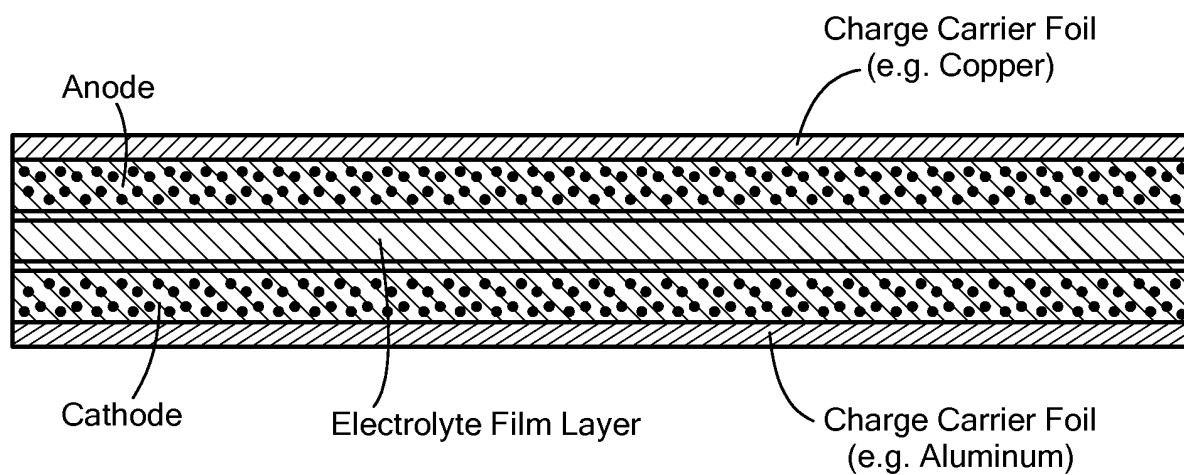
Cyclic Voltammetry of Ionically Conductive Polymer versus Lithium Metal

FIG. 10

Ionically conductive electrolyte and electrode components

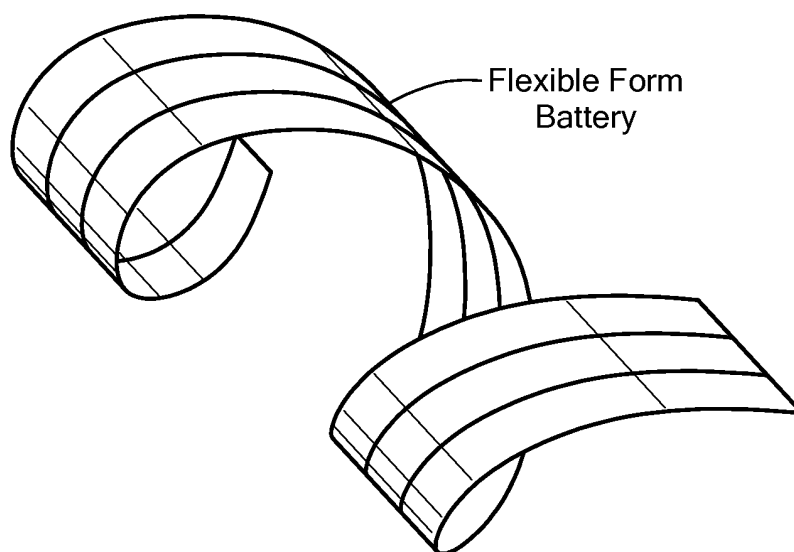
FIG. 11

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Solid State Battery-Electrode and electrolyte bonded together

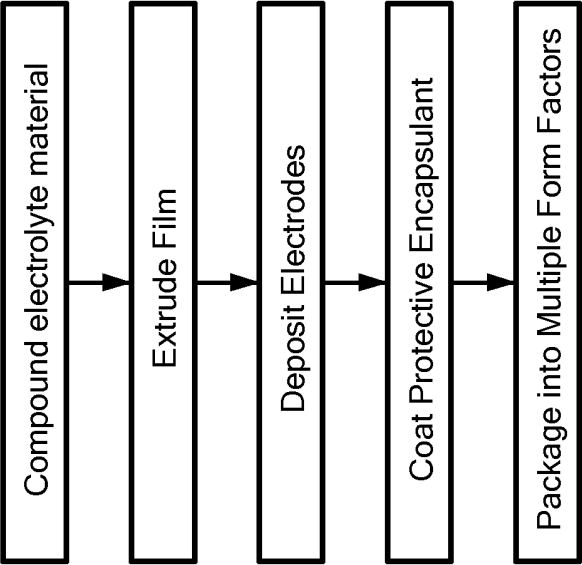
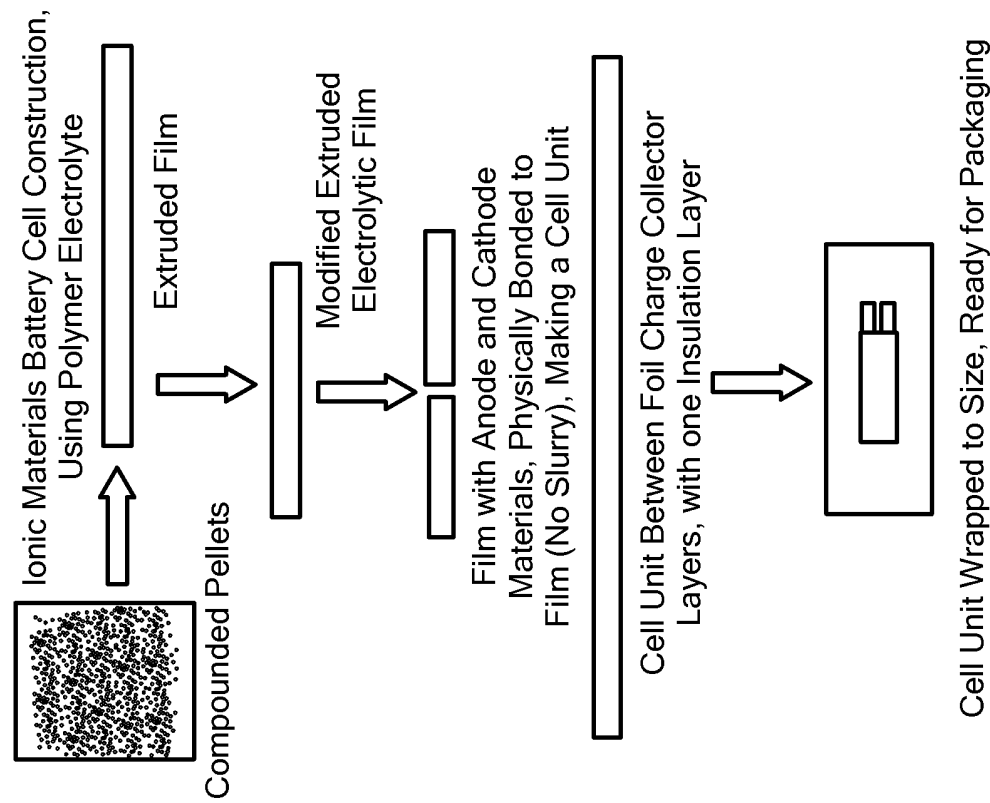
FIG. 12



Flexible Form of Battery

FIG. 13

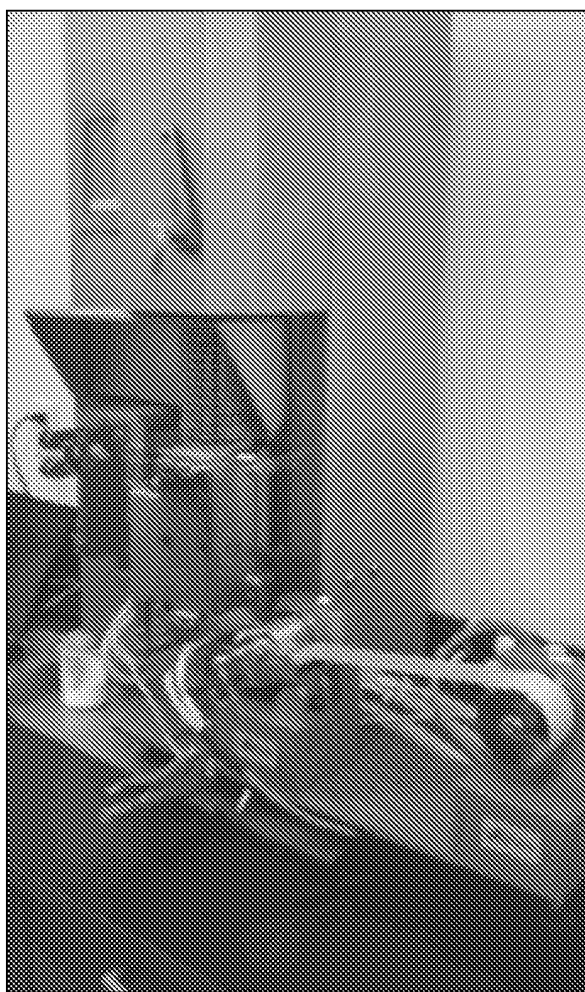
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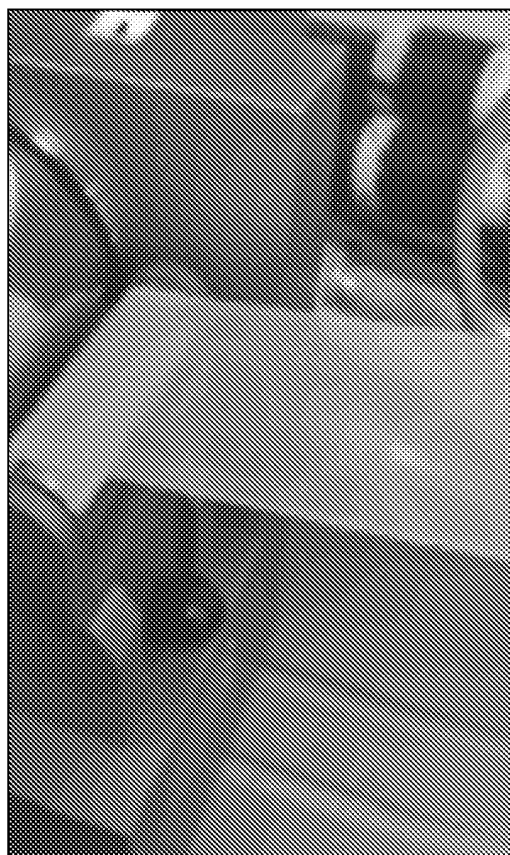
Battery Manufacture

FIG. 14

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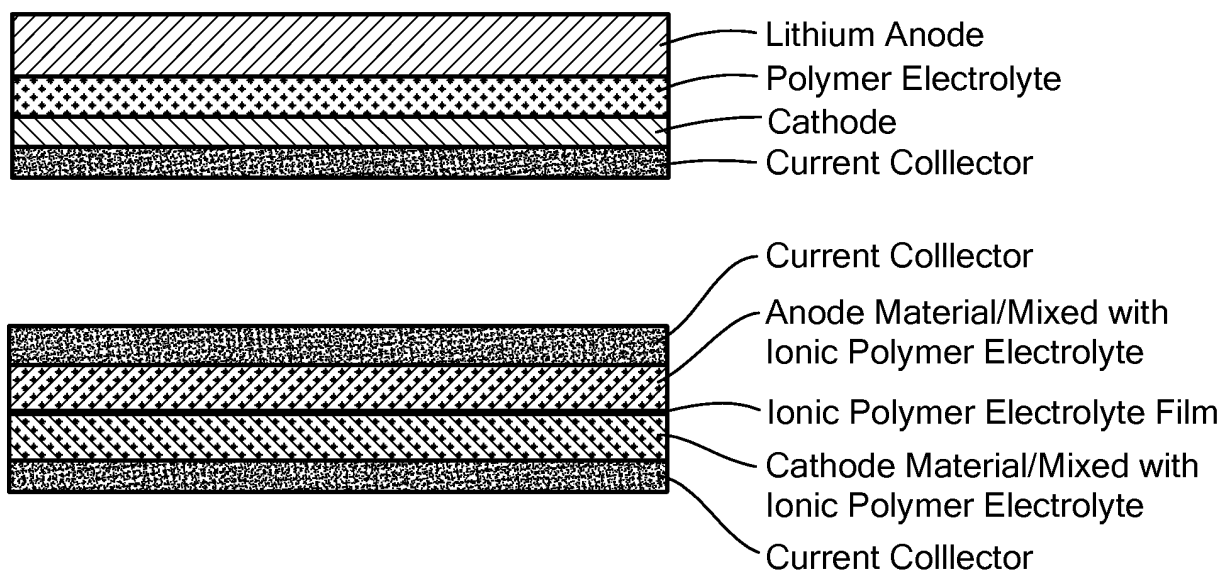
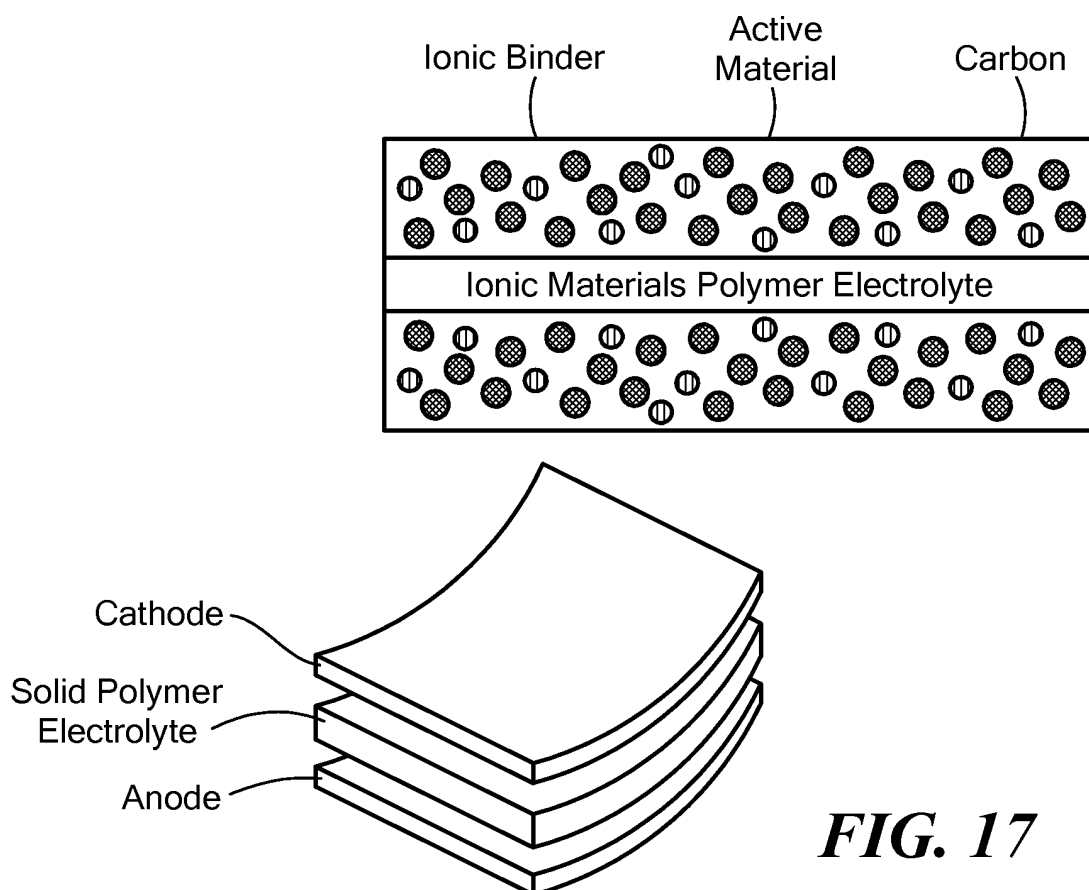
Film Thickness as low
as 0.0003" have been
achieved



Extrusion Process

FIG. 15

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

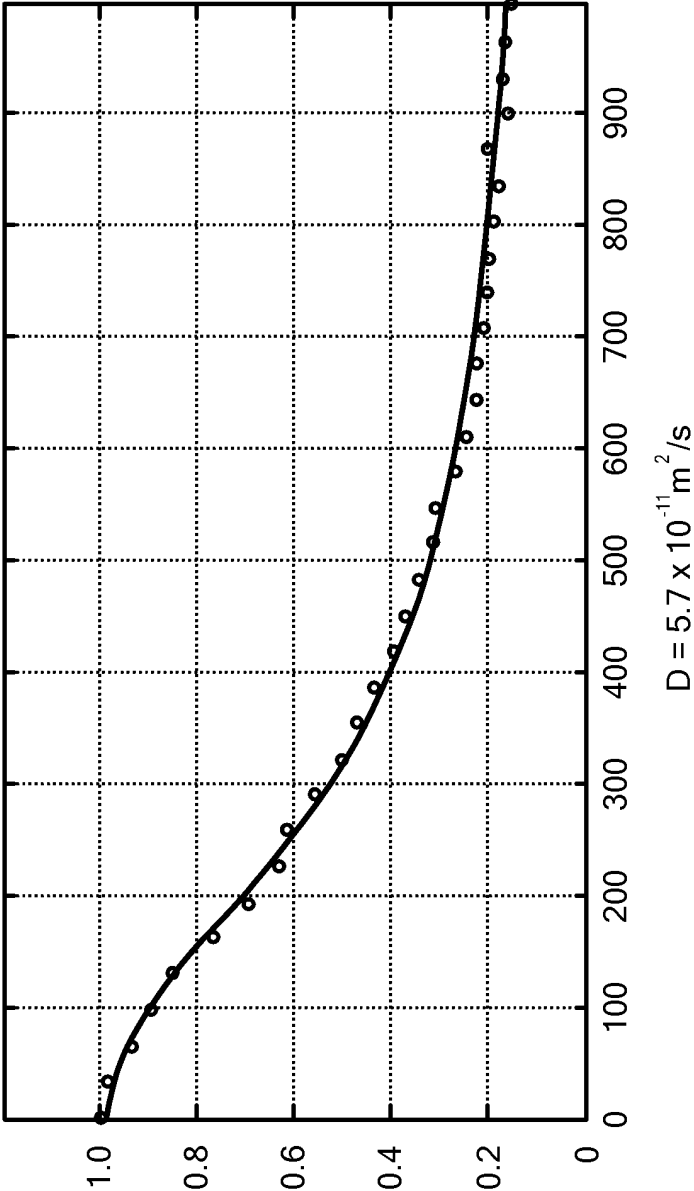
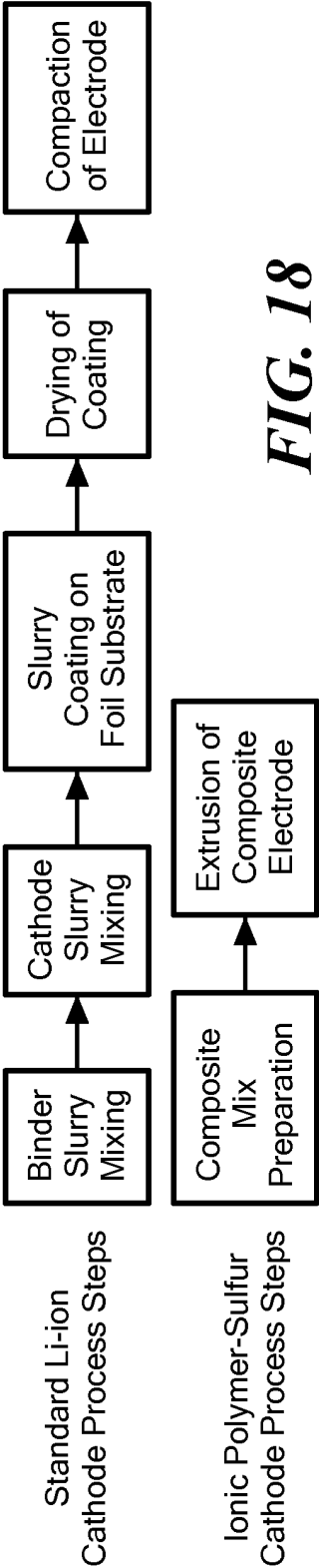
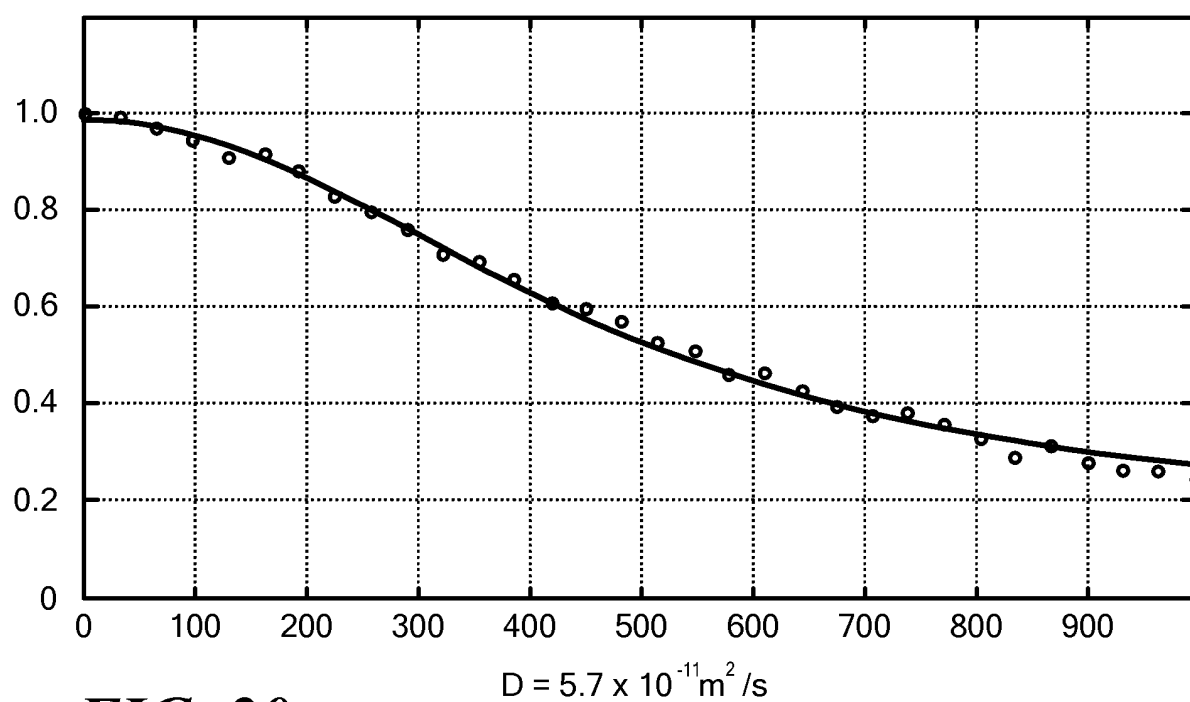
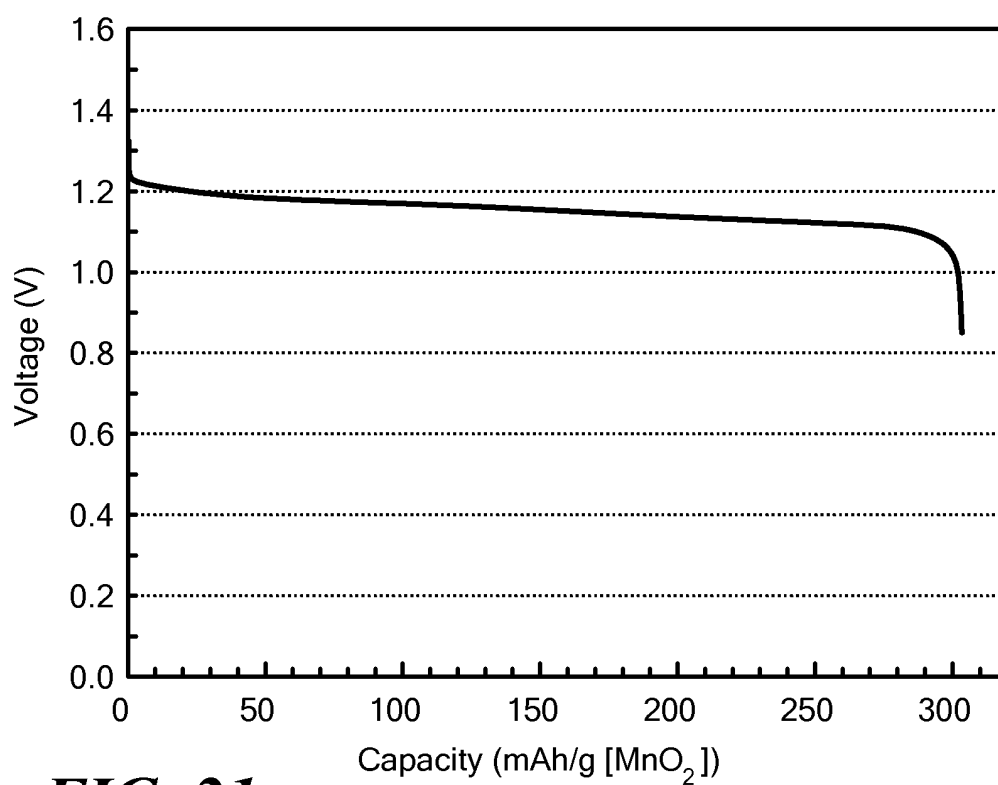
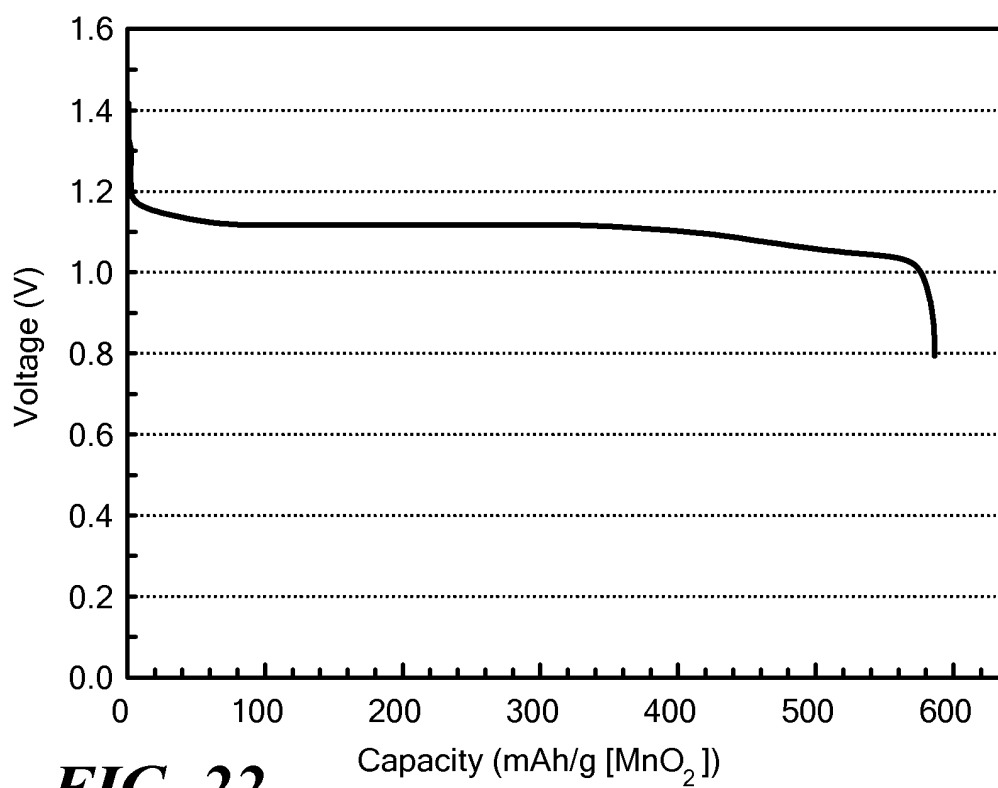
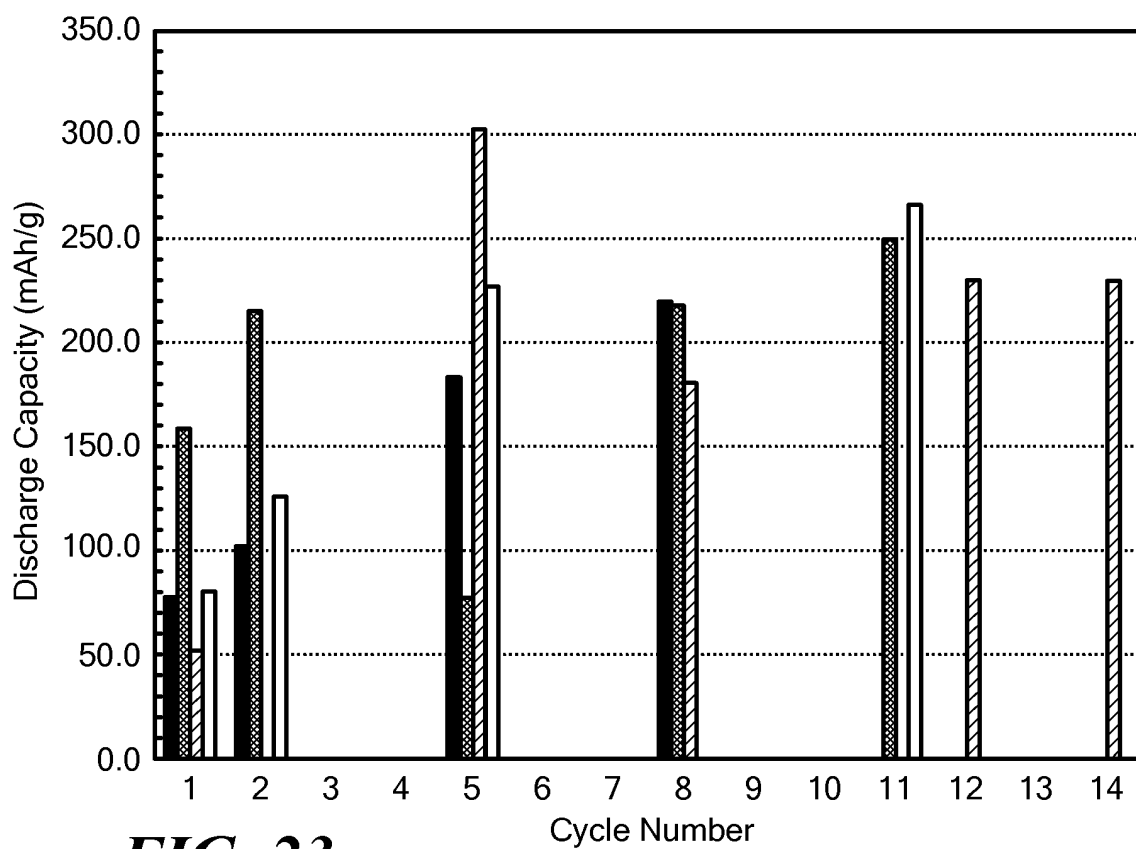


FIG. 19

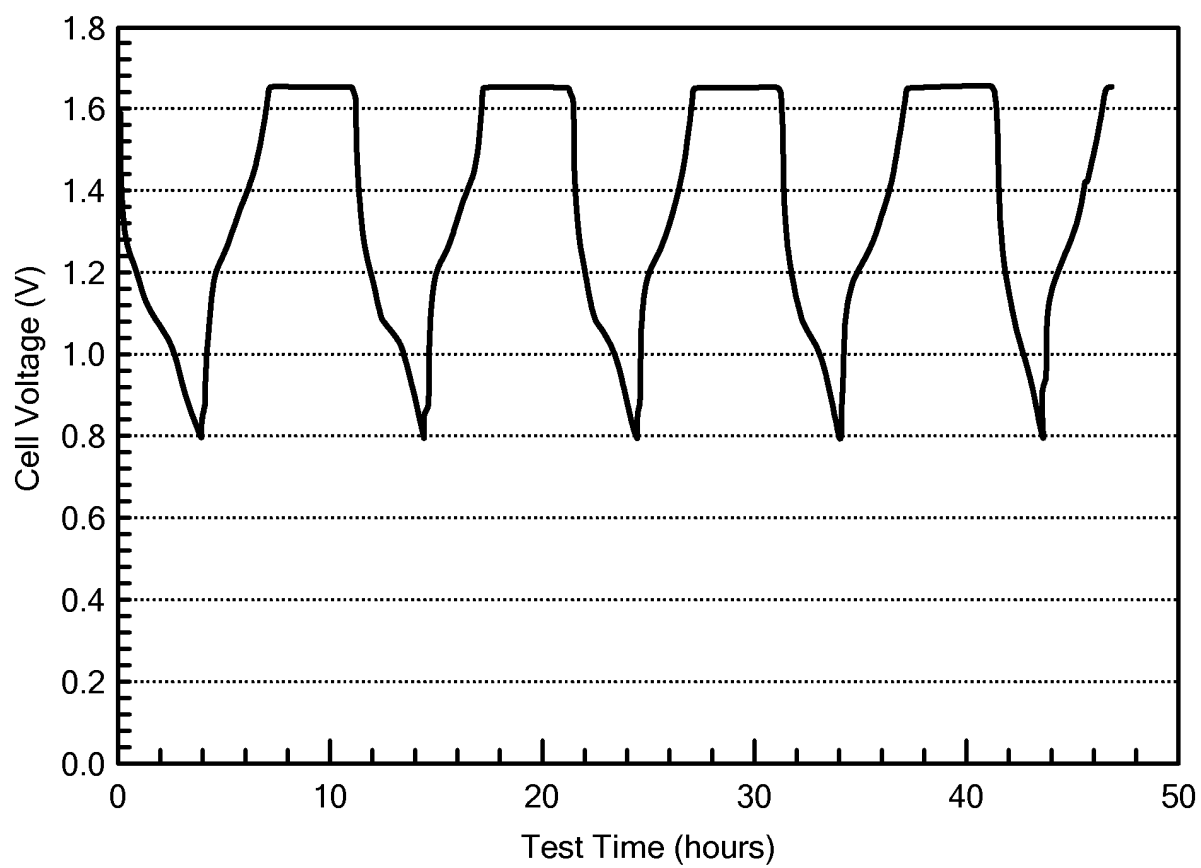
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**FIG. 20****FIG. 21**

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

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***FIG. 24***

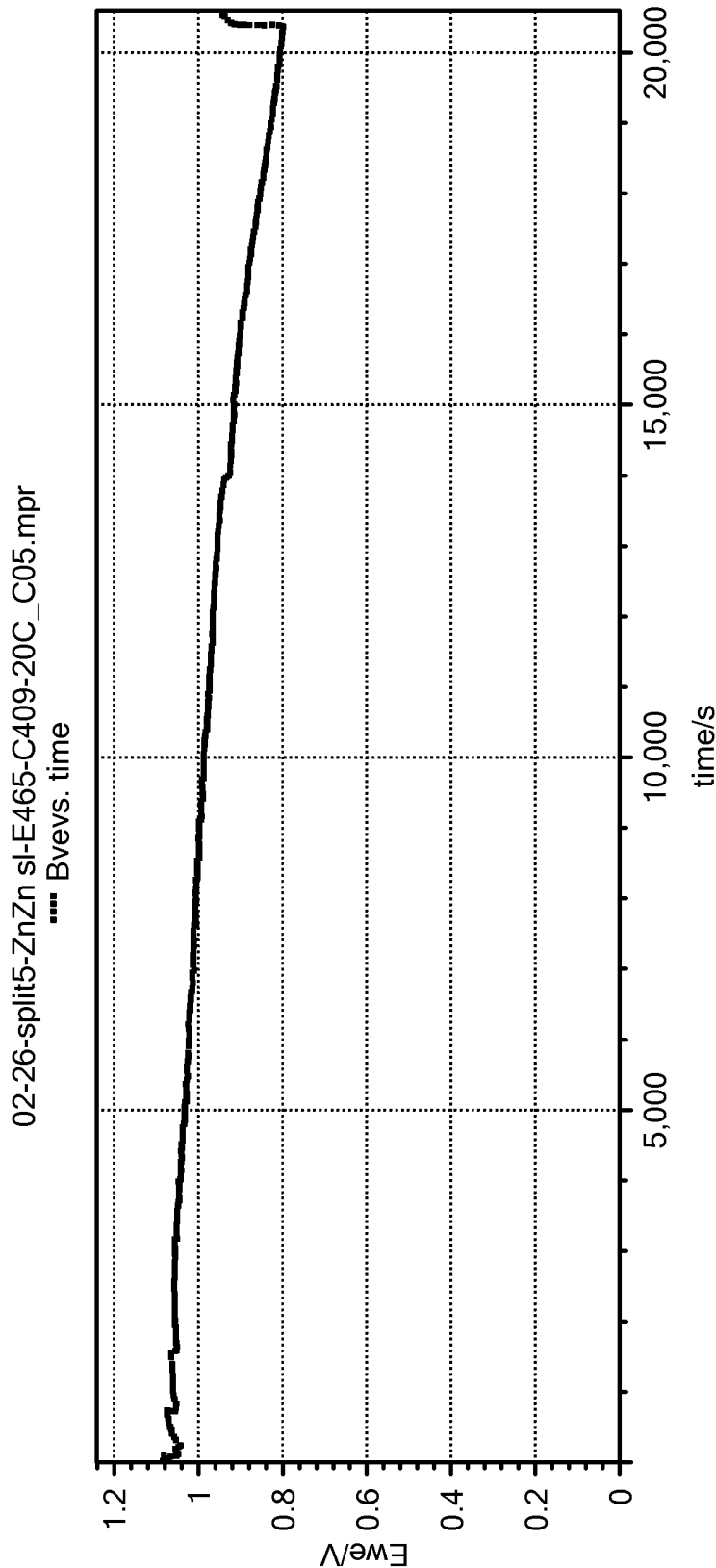
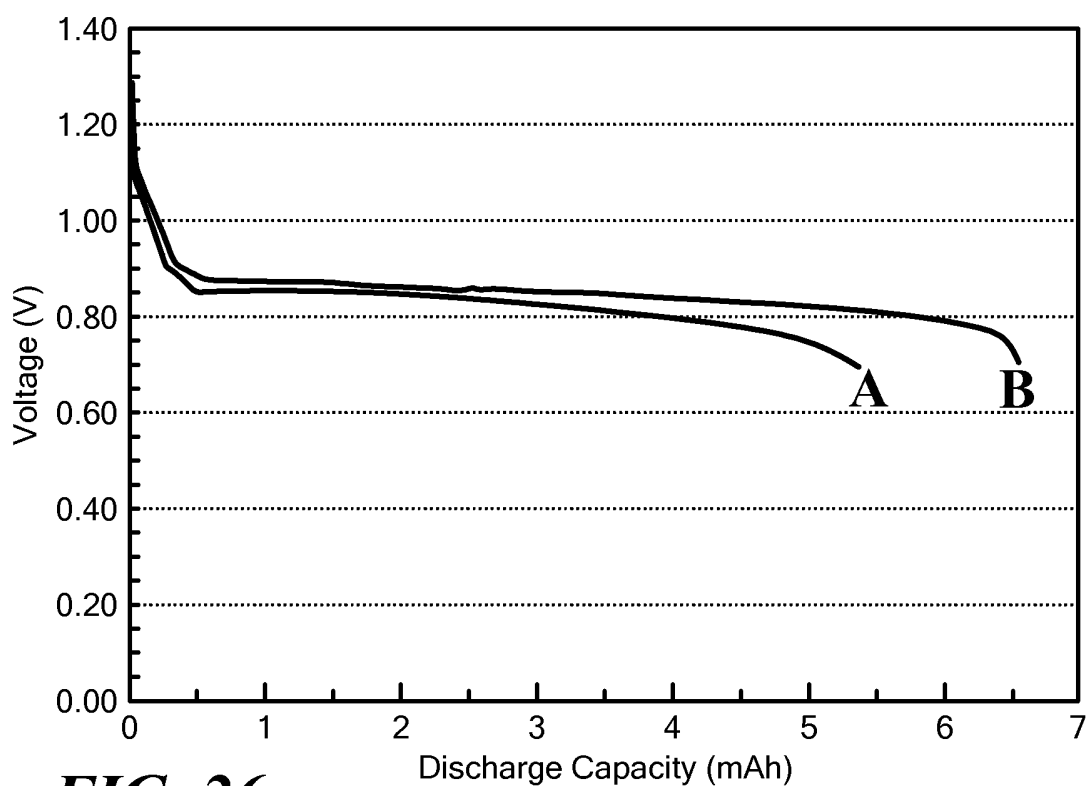
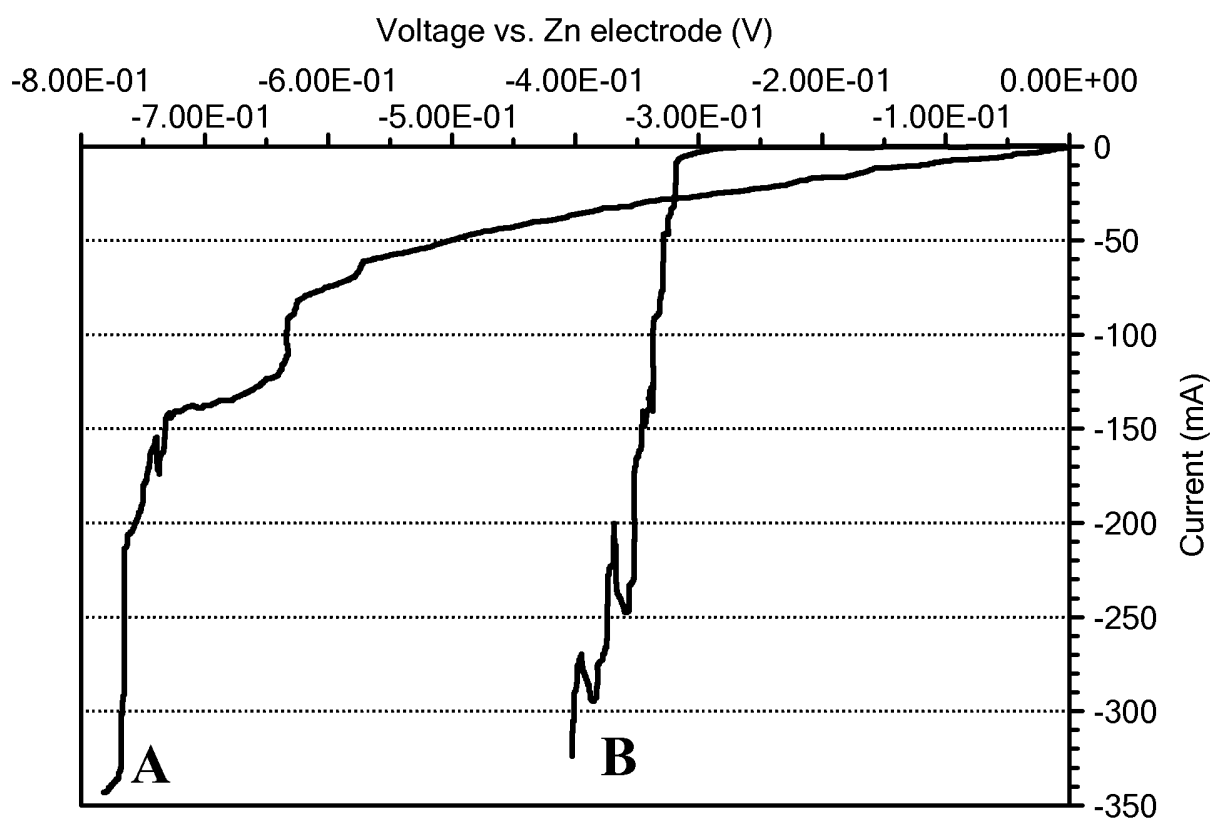
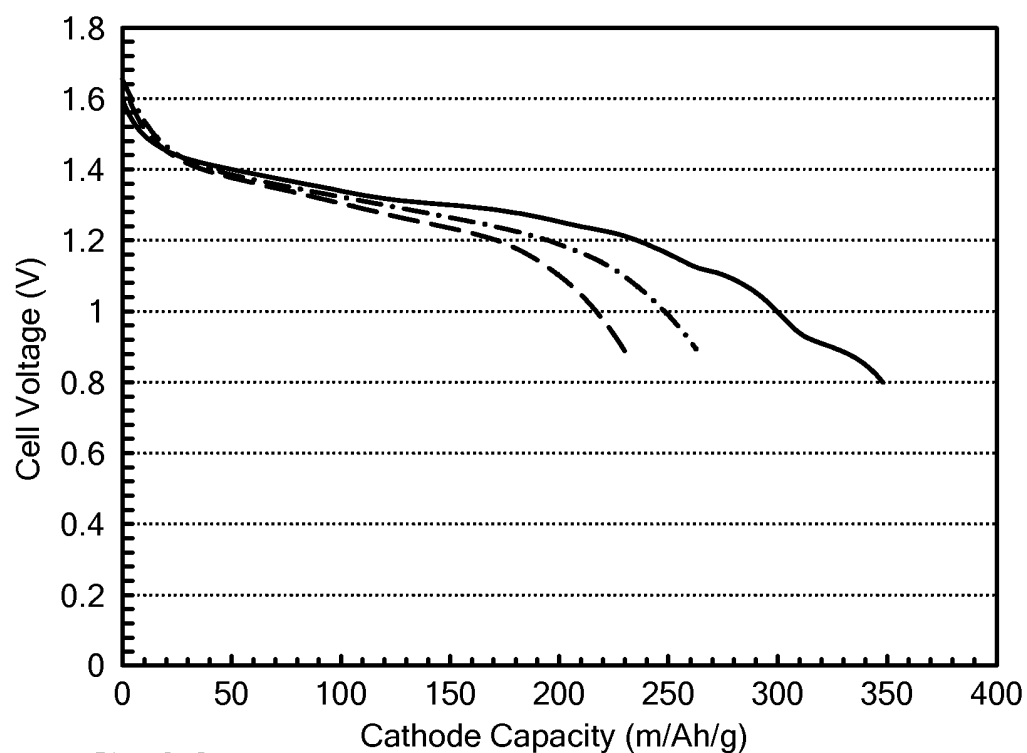
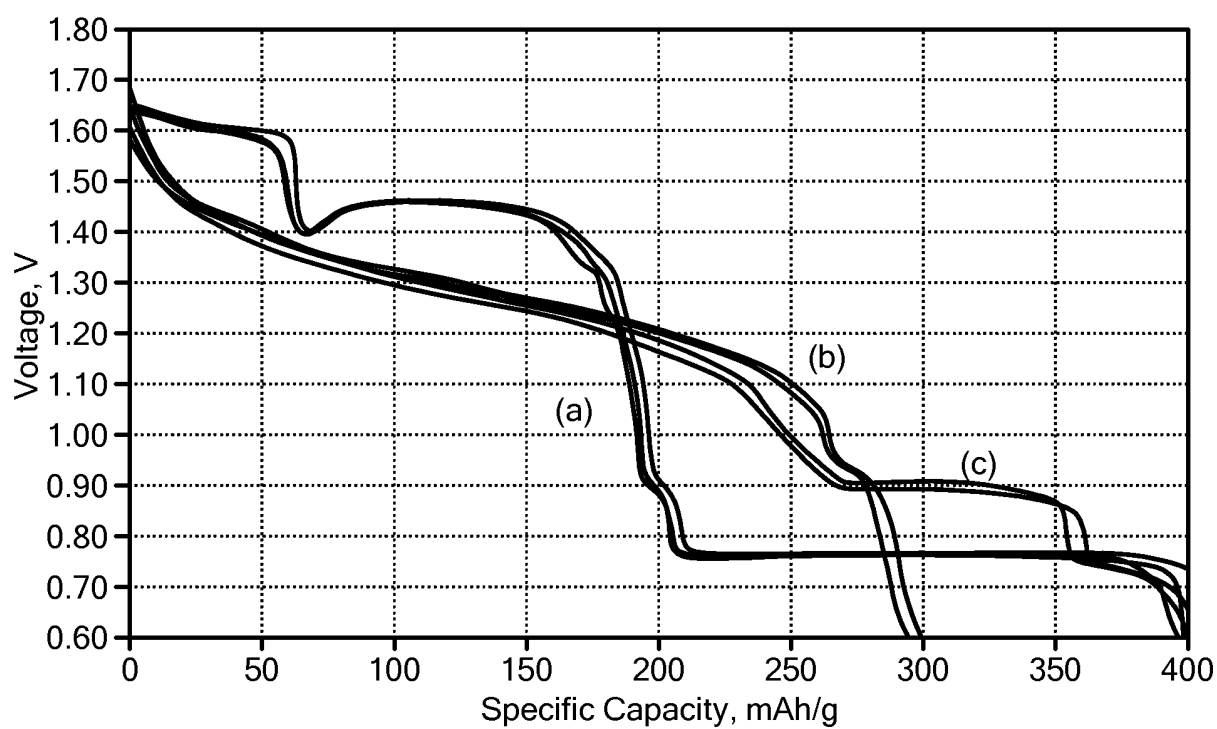


FIG. 25

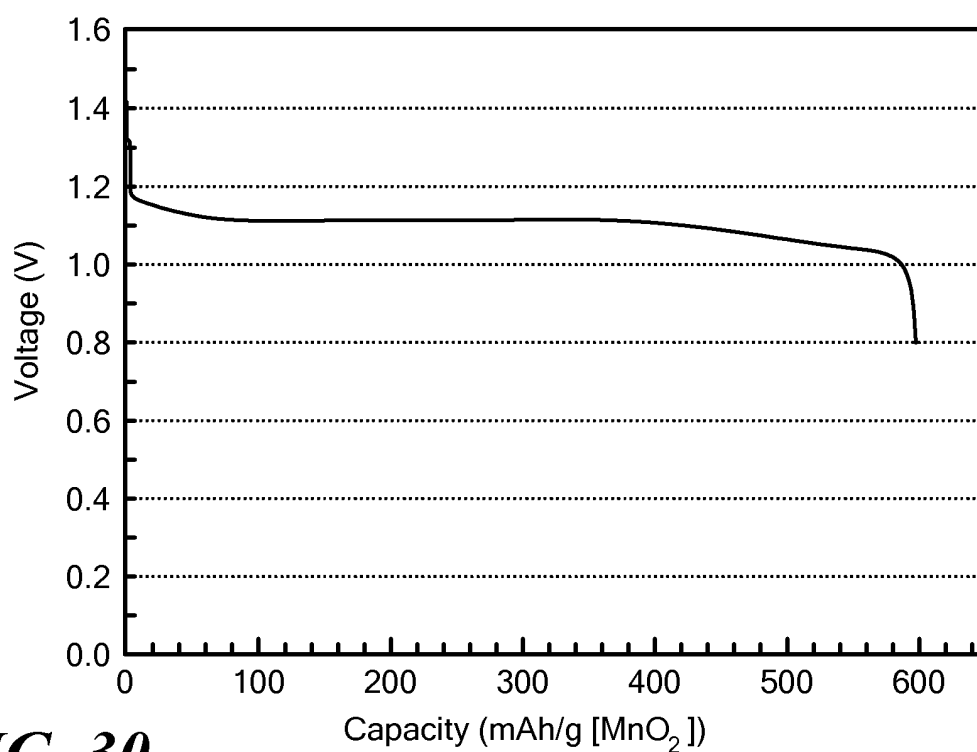
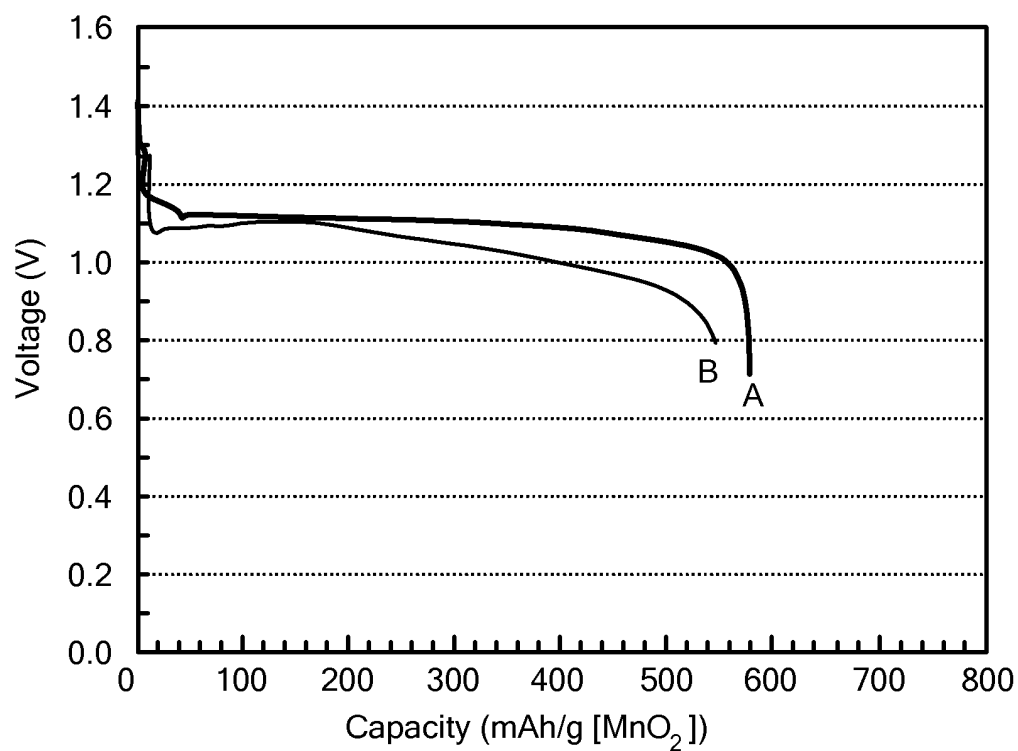
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**FIG. 26****FIG. 27**

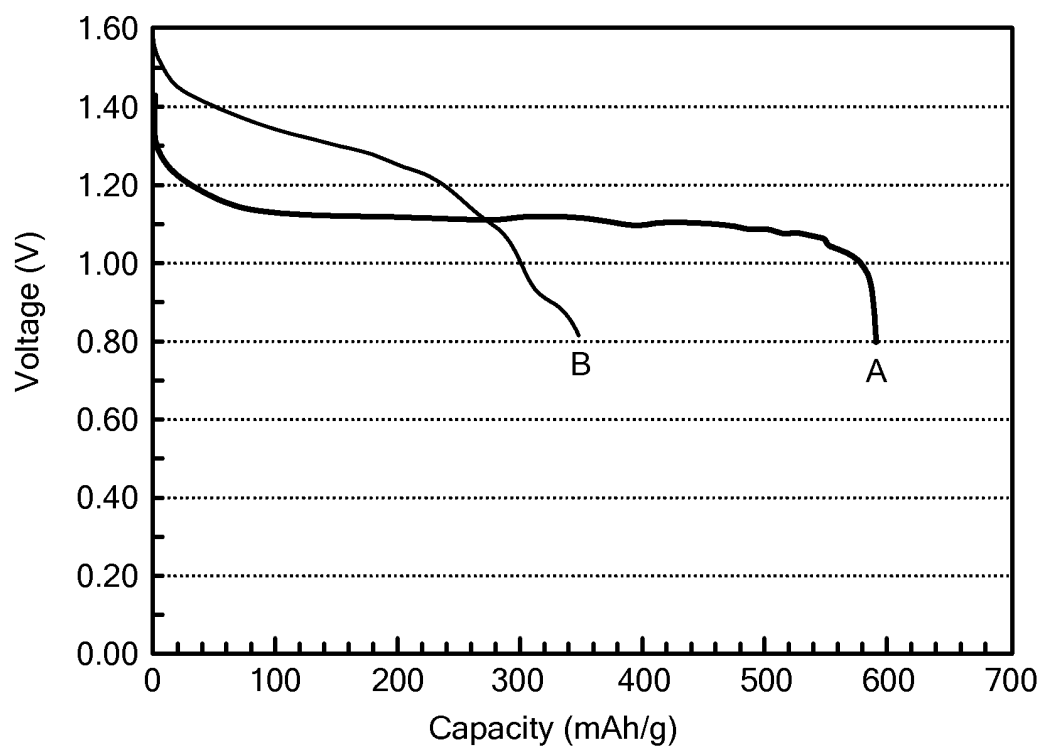
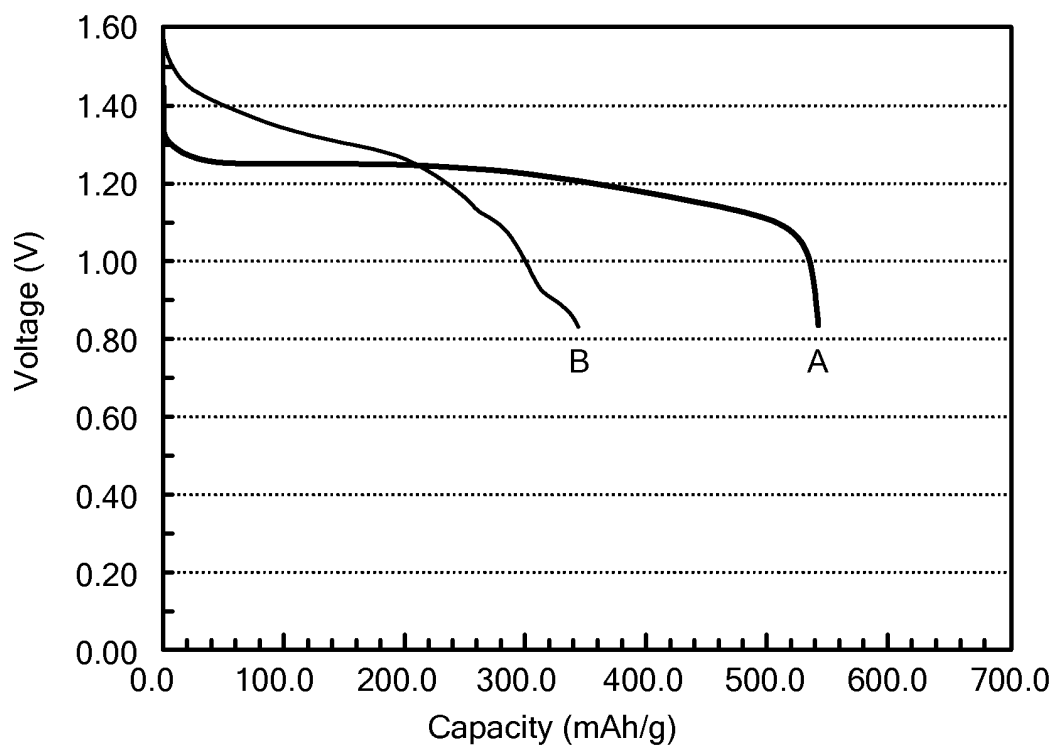
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**FIG. 28****FIG. 29**

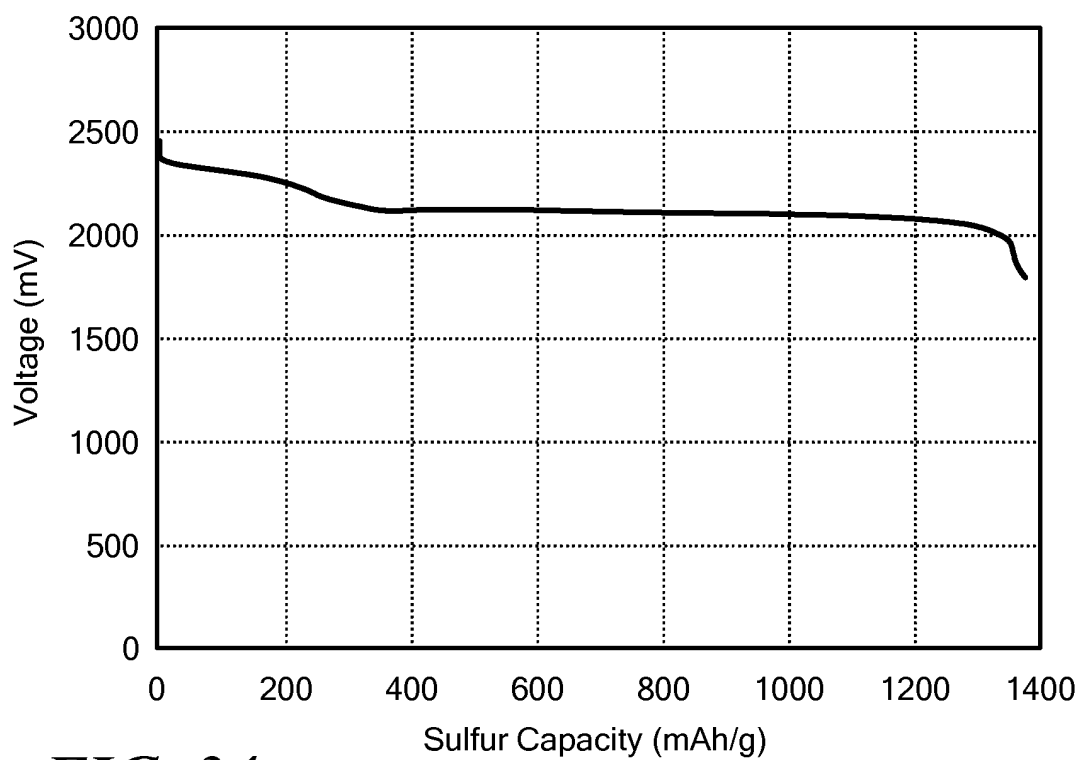
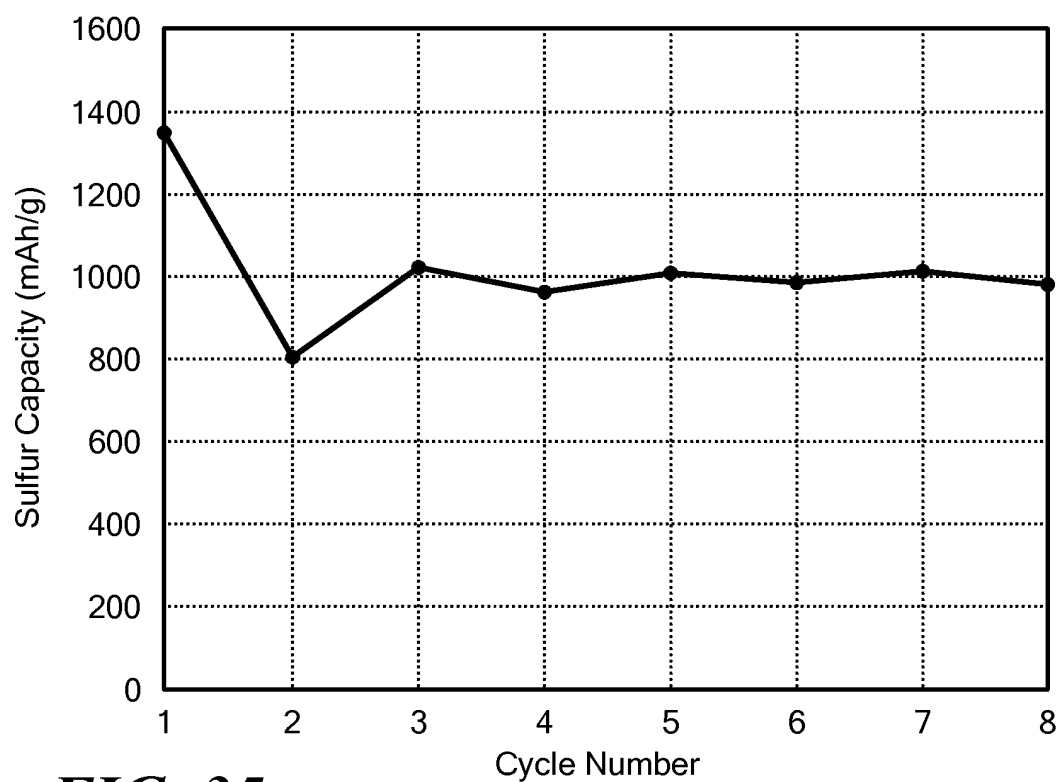
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**FIG. 30****FIG. 31**

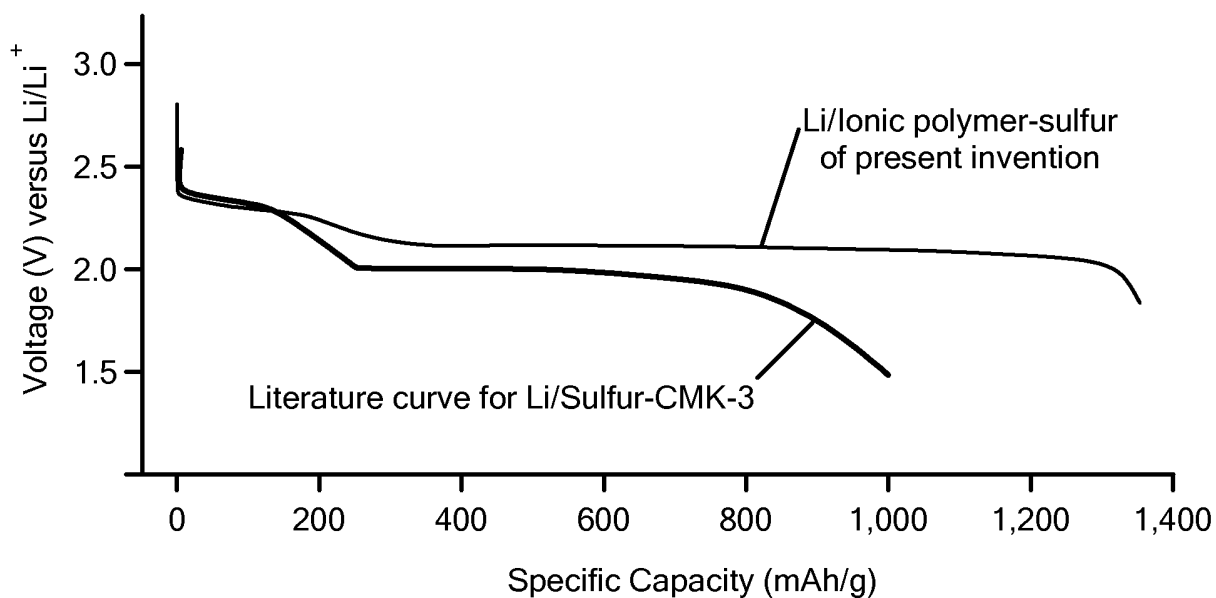
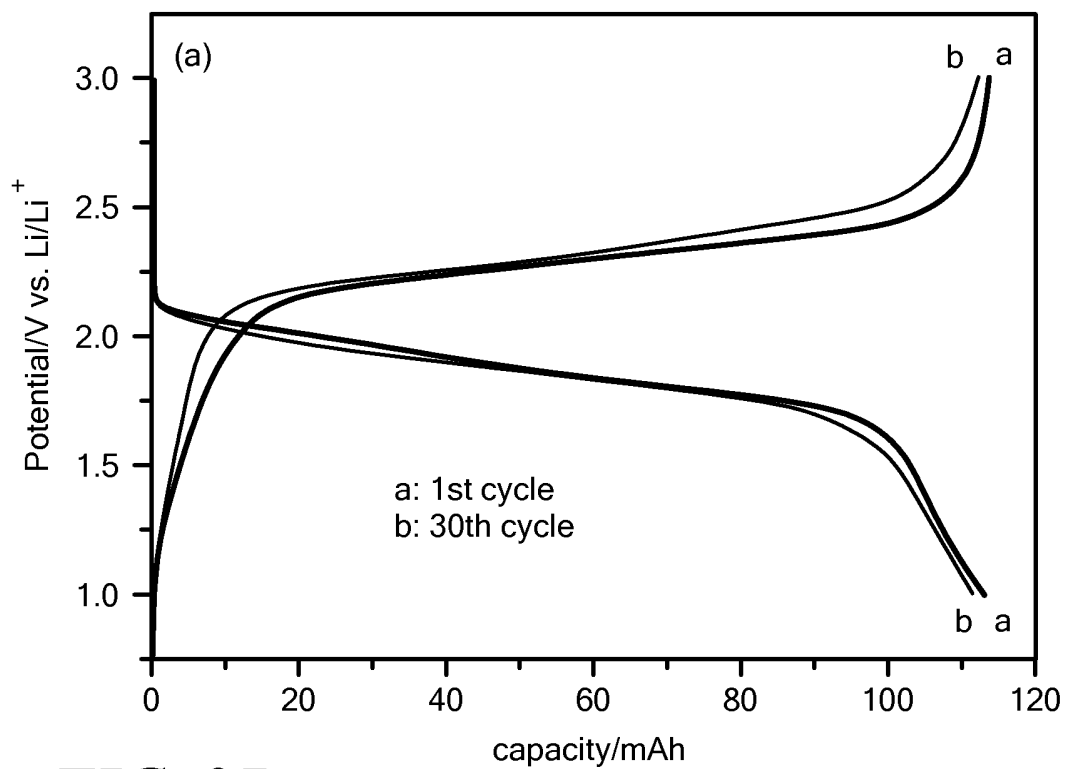
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**FIG. 32****FIG. 33**

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

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