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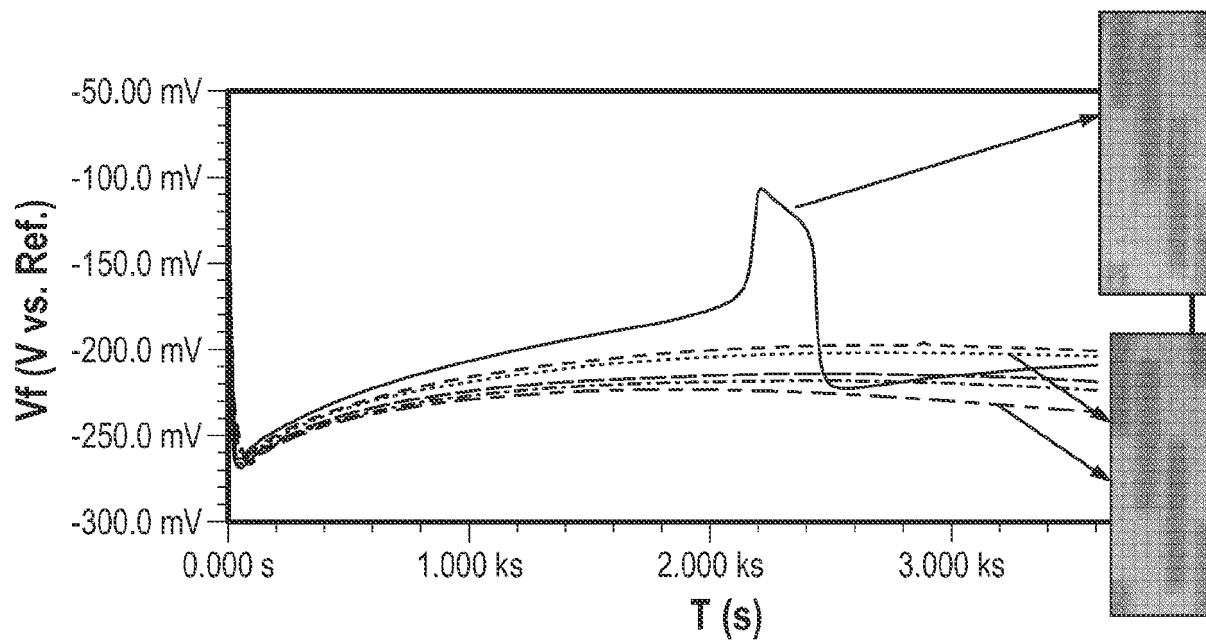


FIG. 1

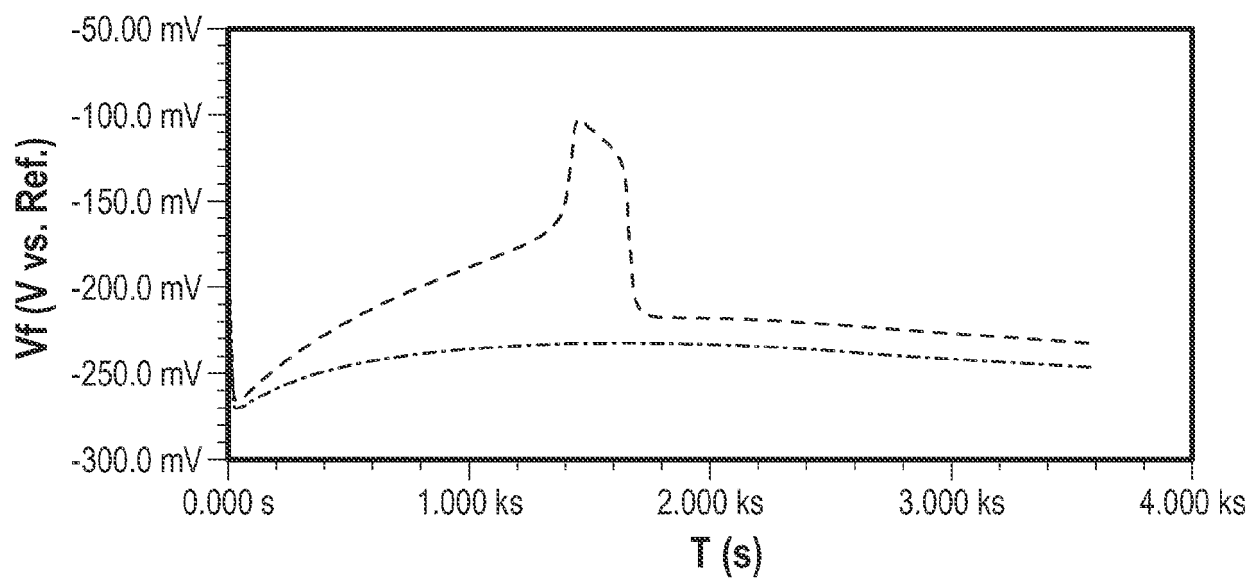


FIG. 2

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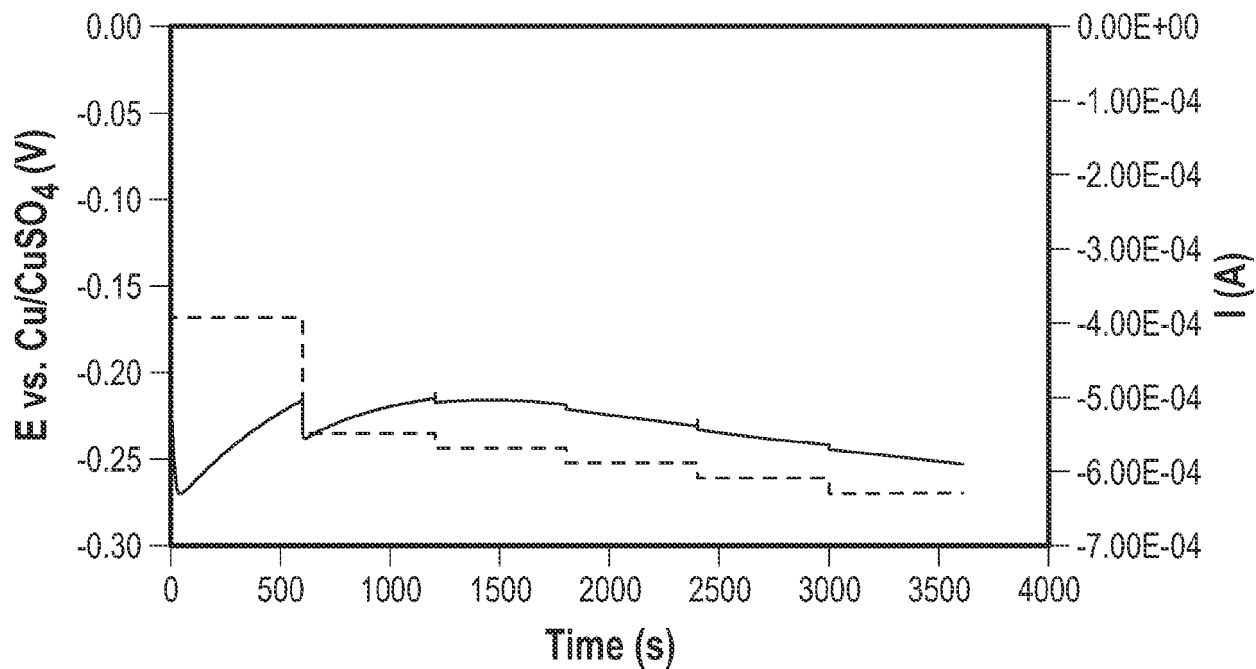


FIG. 3

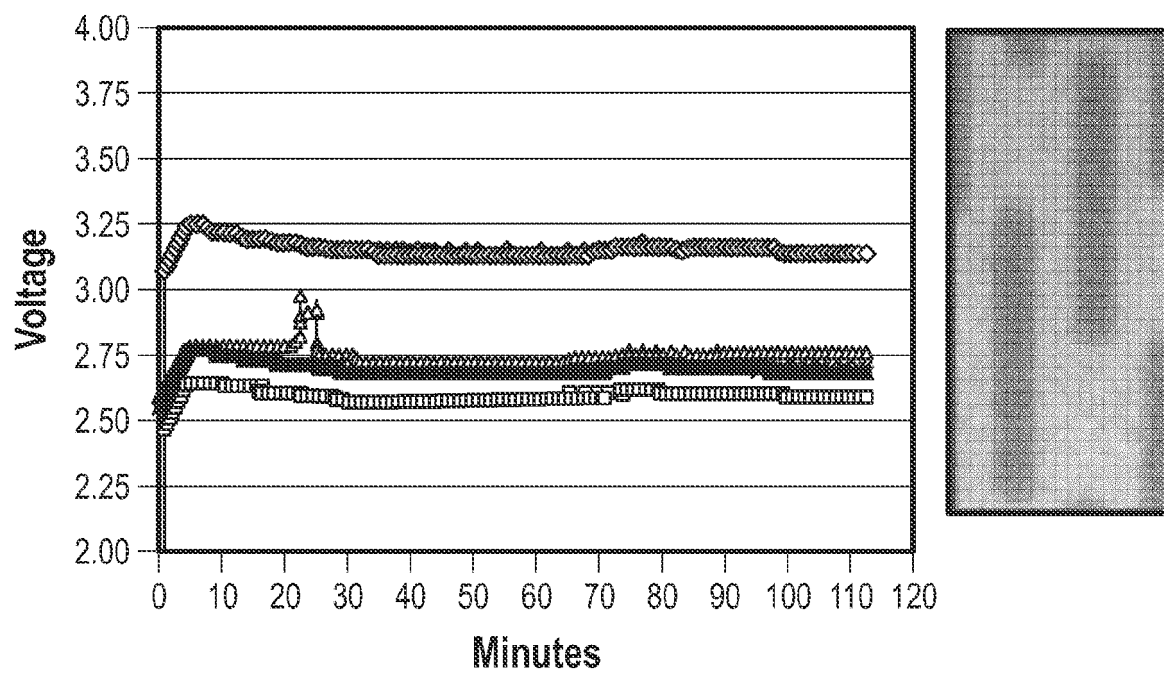


FIG. 4A

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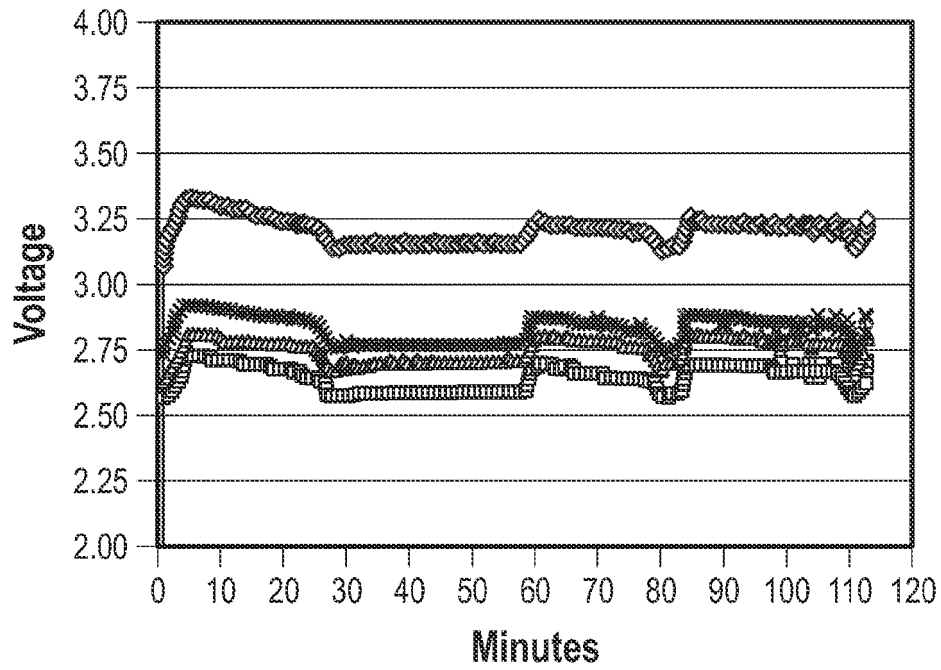


FIG. 4B

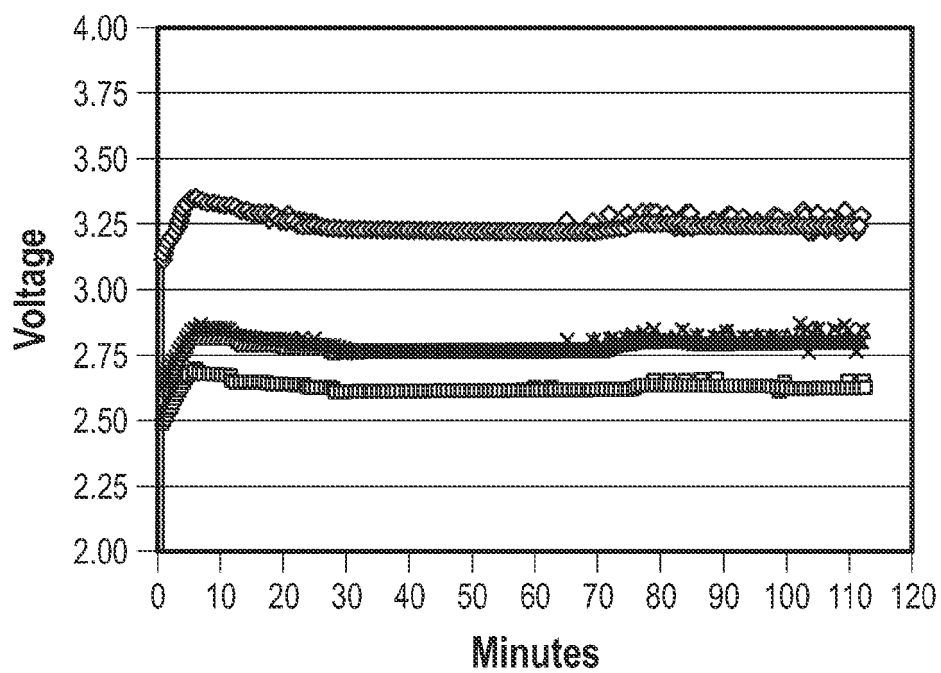


FIG. 4C

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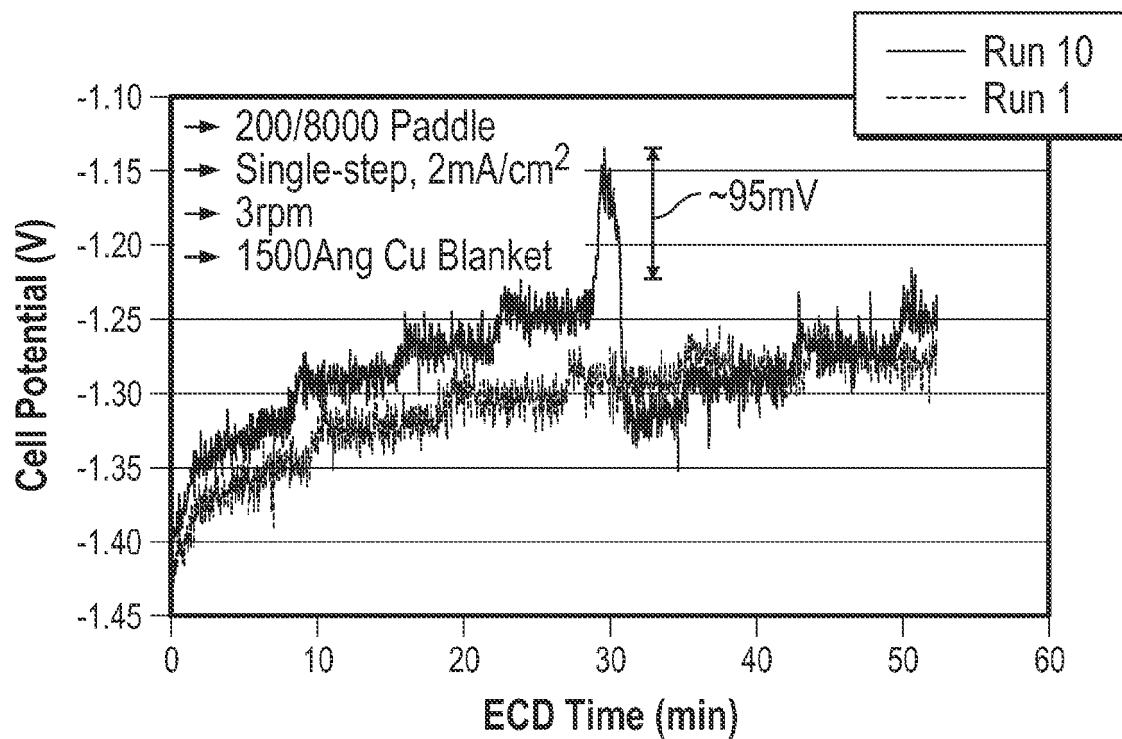


FIG. 5A

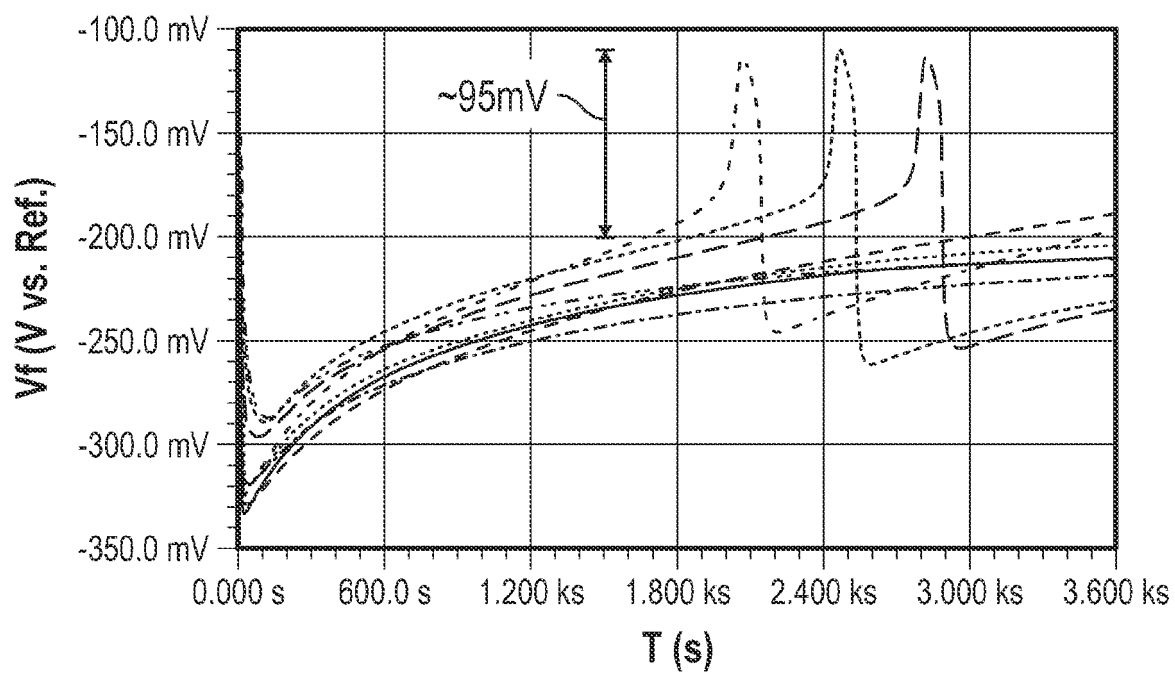


FIG. 5B

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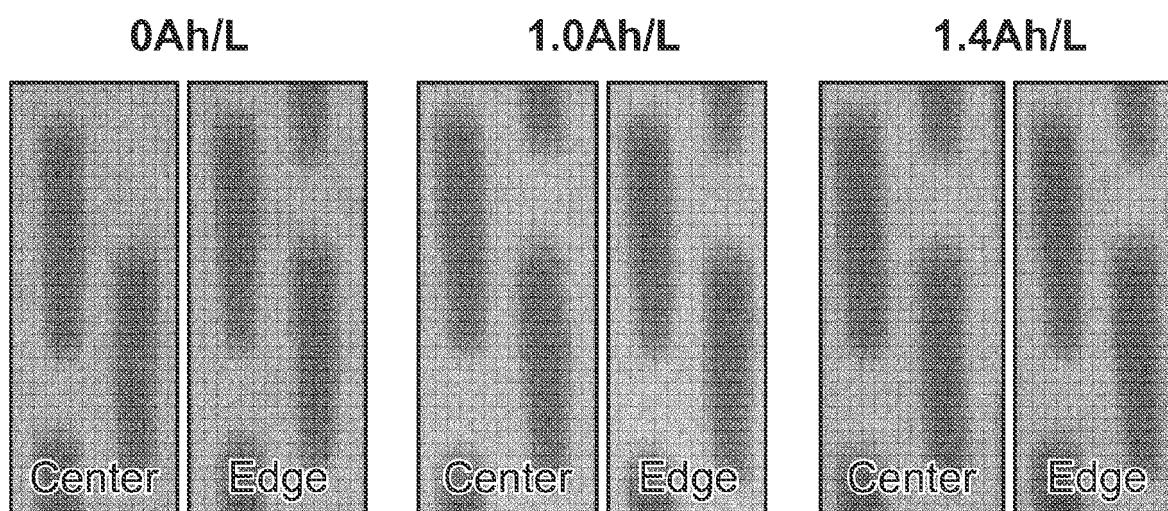


FIG. 6A

FIG. 6B

FIG. 6C

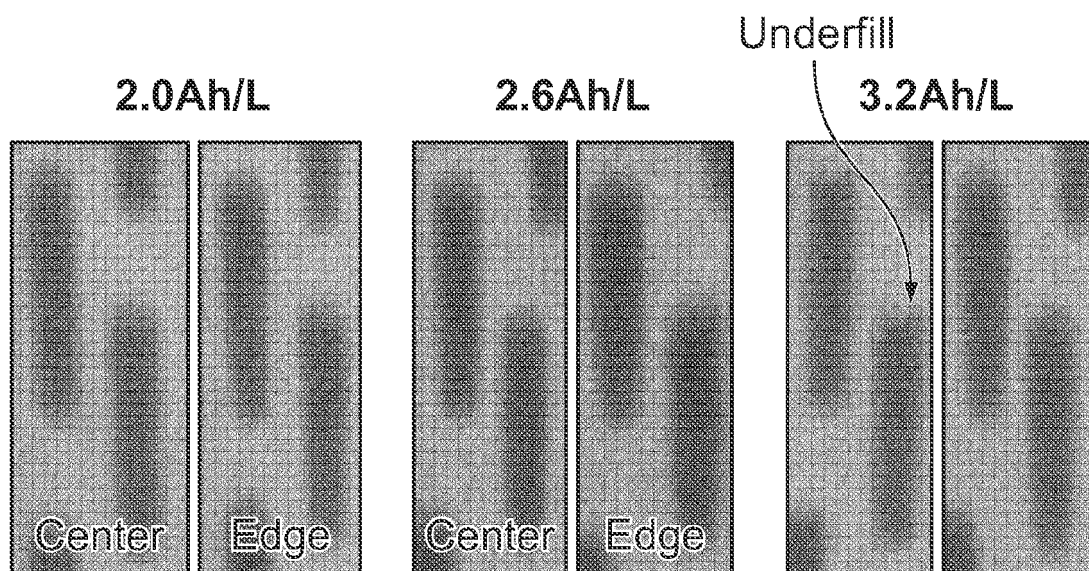


FIG. 6D

FIG. 6E

FIG. 6F

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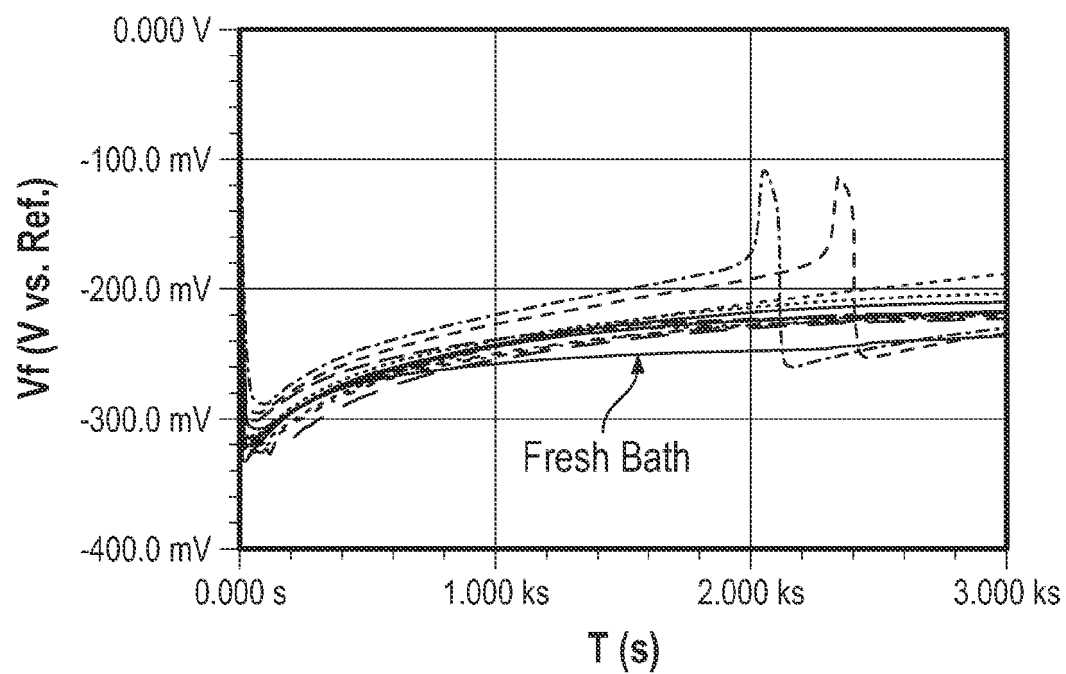


FIG. 6G

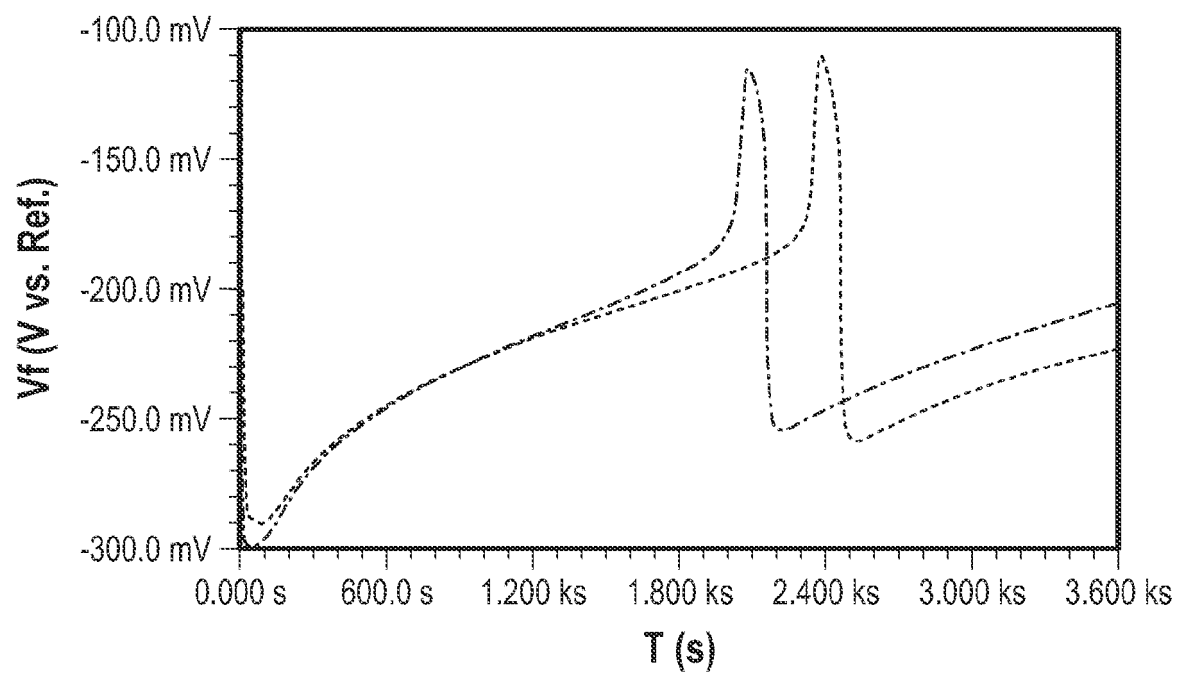


FIG. 7

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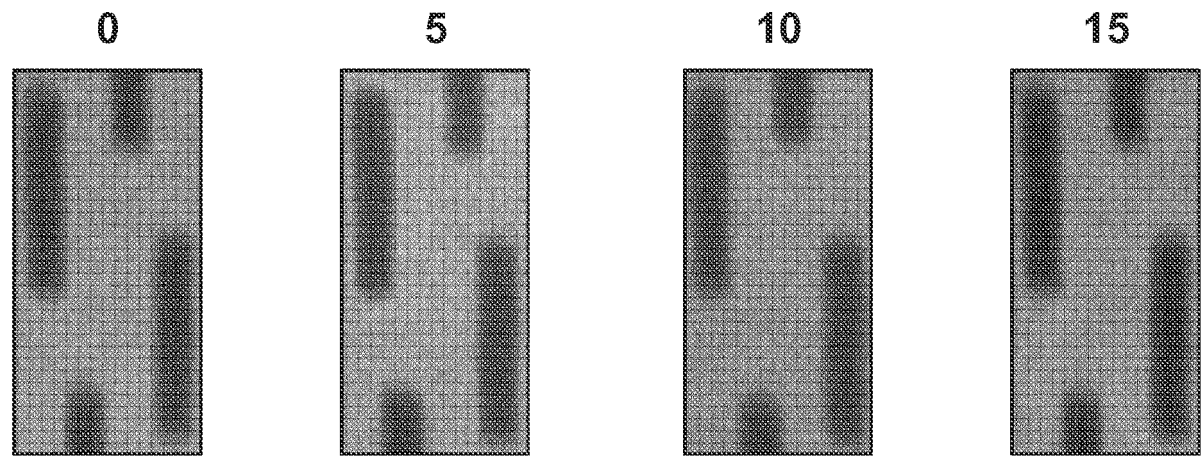


FIG. 8A

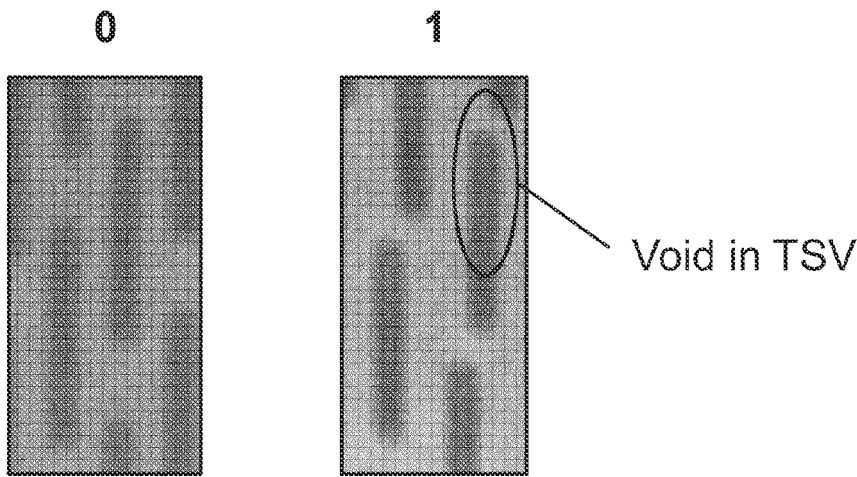


FIG. 8B

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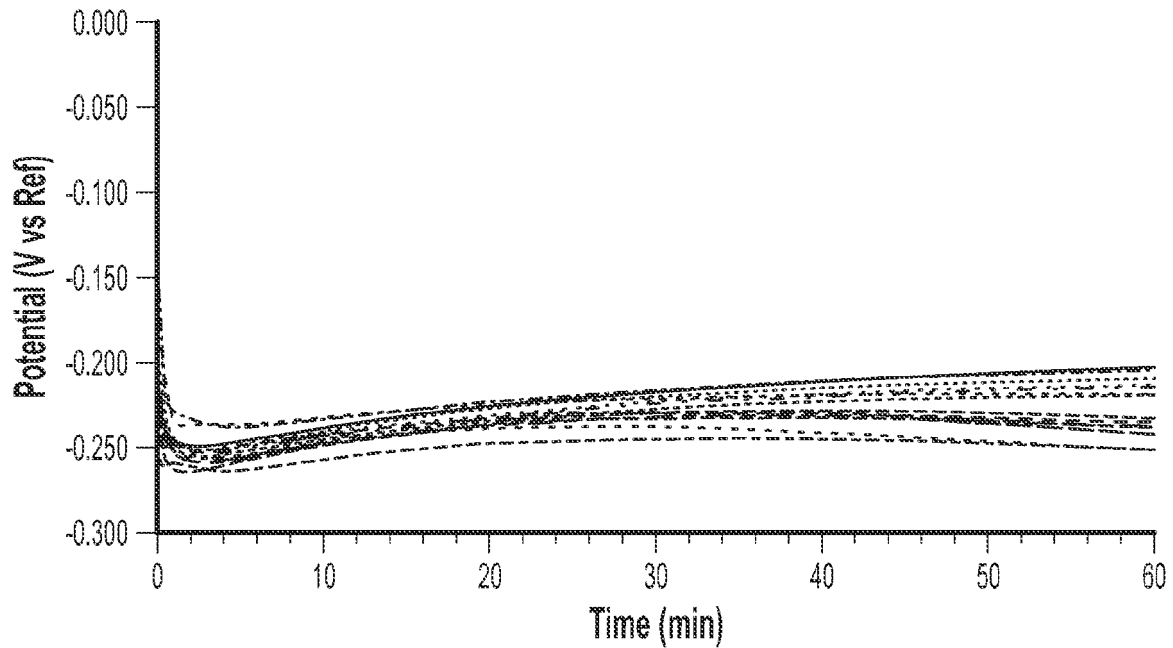


FIG. 9

Parameter	Old BKM	New BKM	Reasoning
Catholyte VMS	63.5/50/80	63.5/10/80	Improved Bath Stability
Anolyte VMS	63.5/pH=2/80		
Suppressor (A)	10 ml/L		
Accelerator (B)	5 ml/L	4 ml/L	Improved Accelerator Stability
Leveler (C3)	15 ml/L	7 ml/L	Lower Leveler = Reduced Fill Time
Temperature	25 C		
10x100 Recipe	68 min, 8-steps 114.8 amp-min	73 min, 14-steps 123.4 amp-min	Slight Decrease in Fill Rate Stabilized Field Suppression
Bleed and Feed	10% Daily		
Analysis Method	Onboard RTA		
Dosing	Feed Forward & Feed Back		
Consumption Rates	A: ~0.001 ml/min B: ~0.17 ml/A-min C3: ~0.30 ml/min	A: ~0.001 ml/min B: ~0.17 ml/A-min C3: ~0.30 ml/min	Improve Accelerator Stability 10x
Bath Life	<2.5 Ahr/L	>20.0 Ahr/L	Improved Stability
Chemistry Cost (85% util., 8 ECD Chambers)	~\$24.07/wafer	~\$4.99/wafer	Bath Life, Throughput, Accelerator Consumption

FIG. 10

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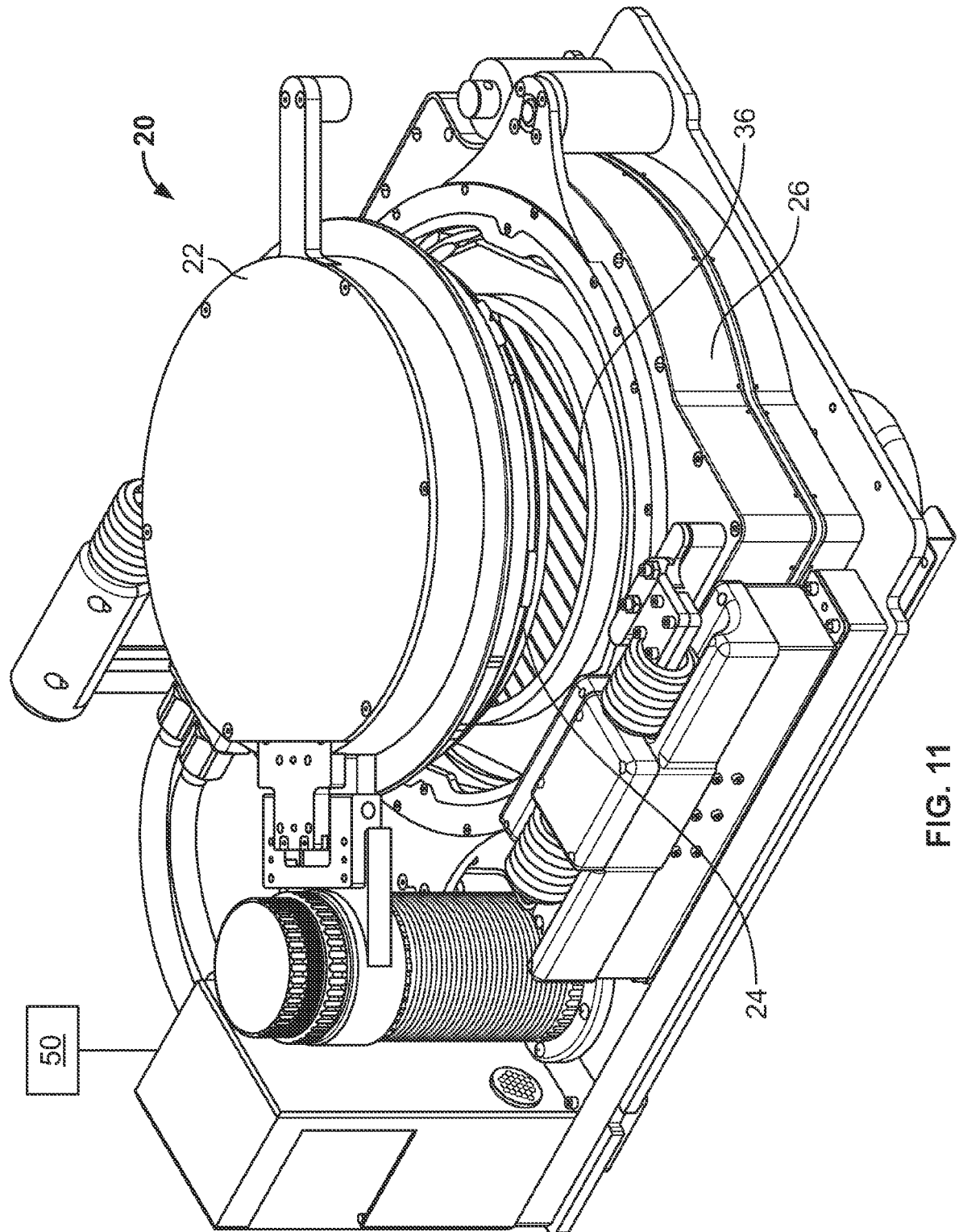


FIG. 11

