

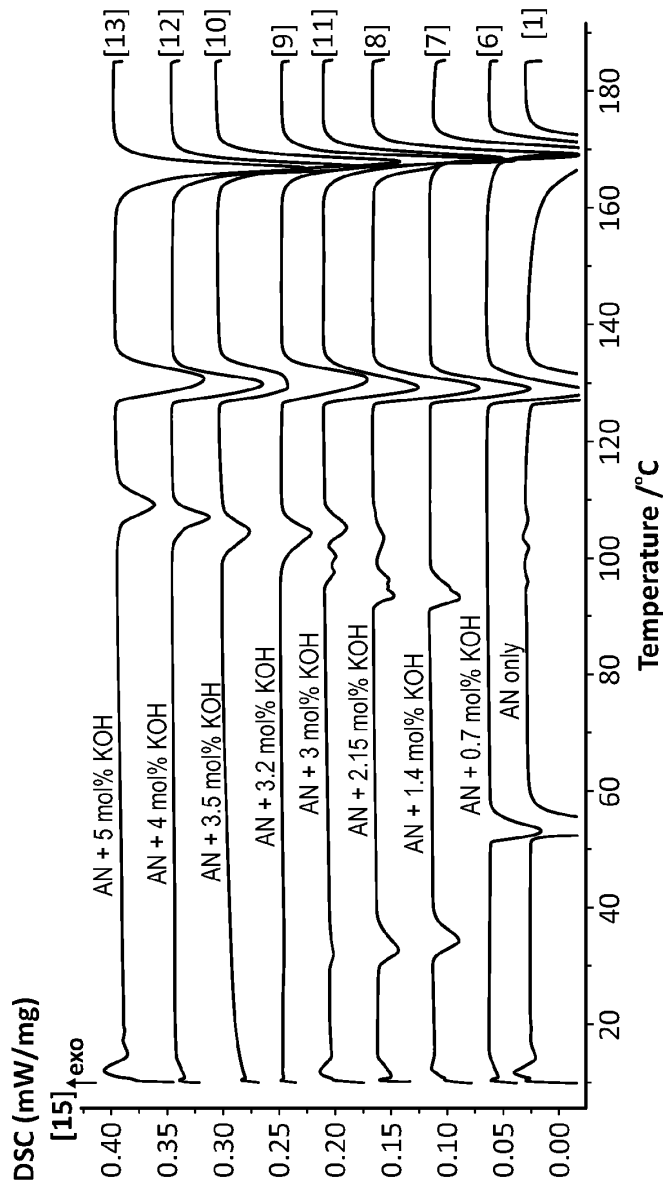


FIG. 1

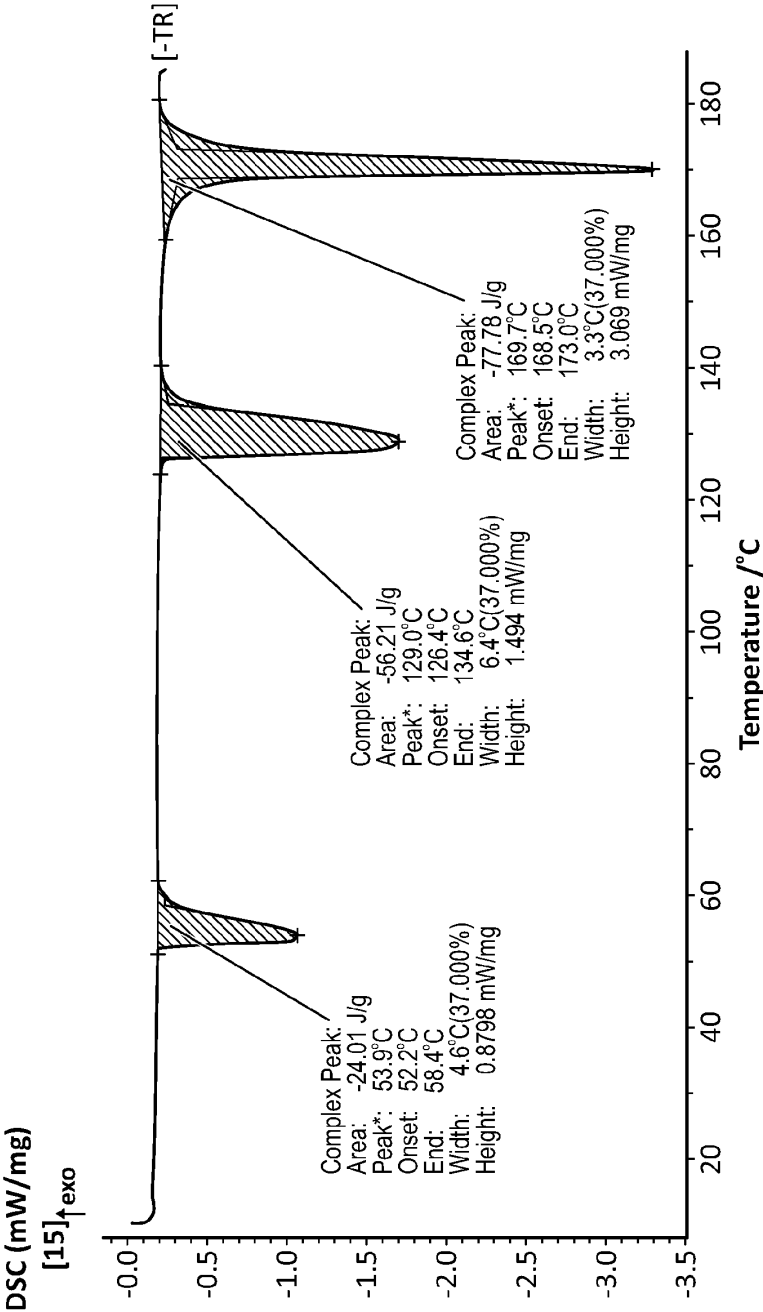


FIG. 2

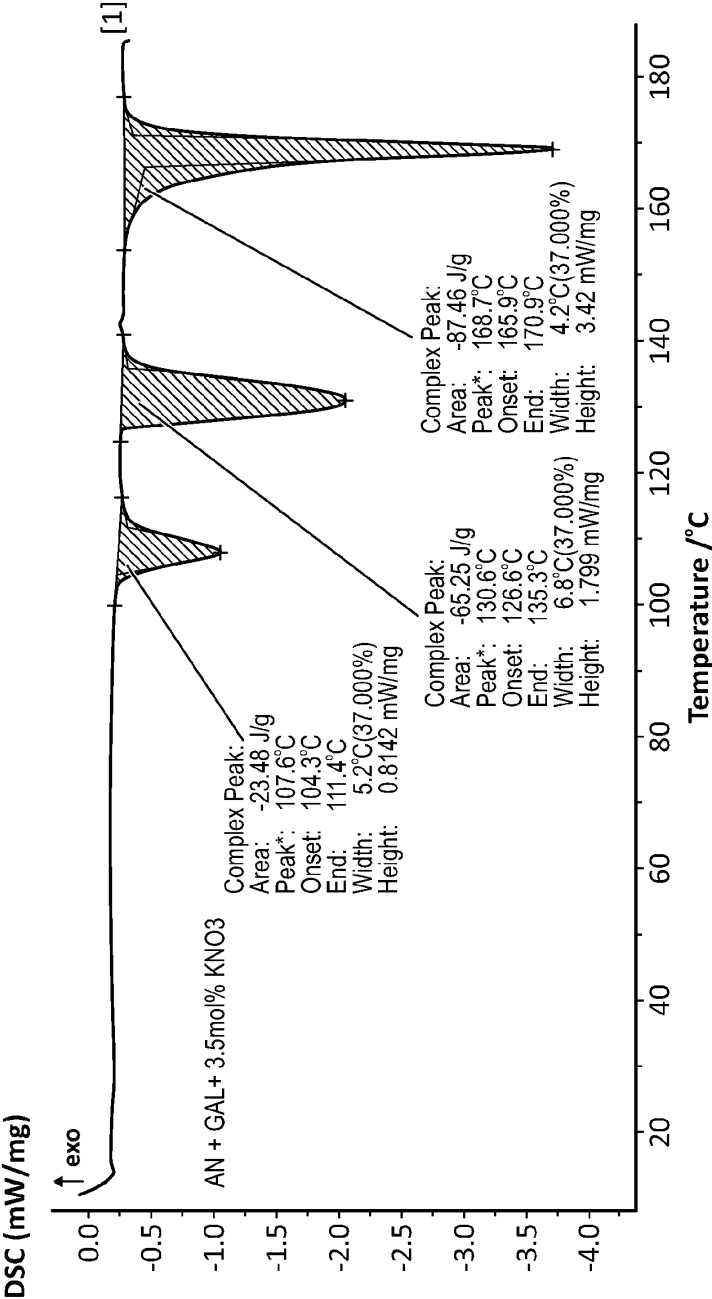


FIG. 3

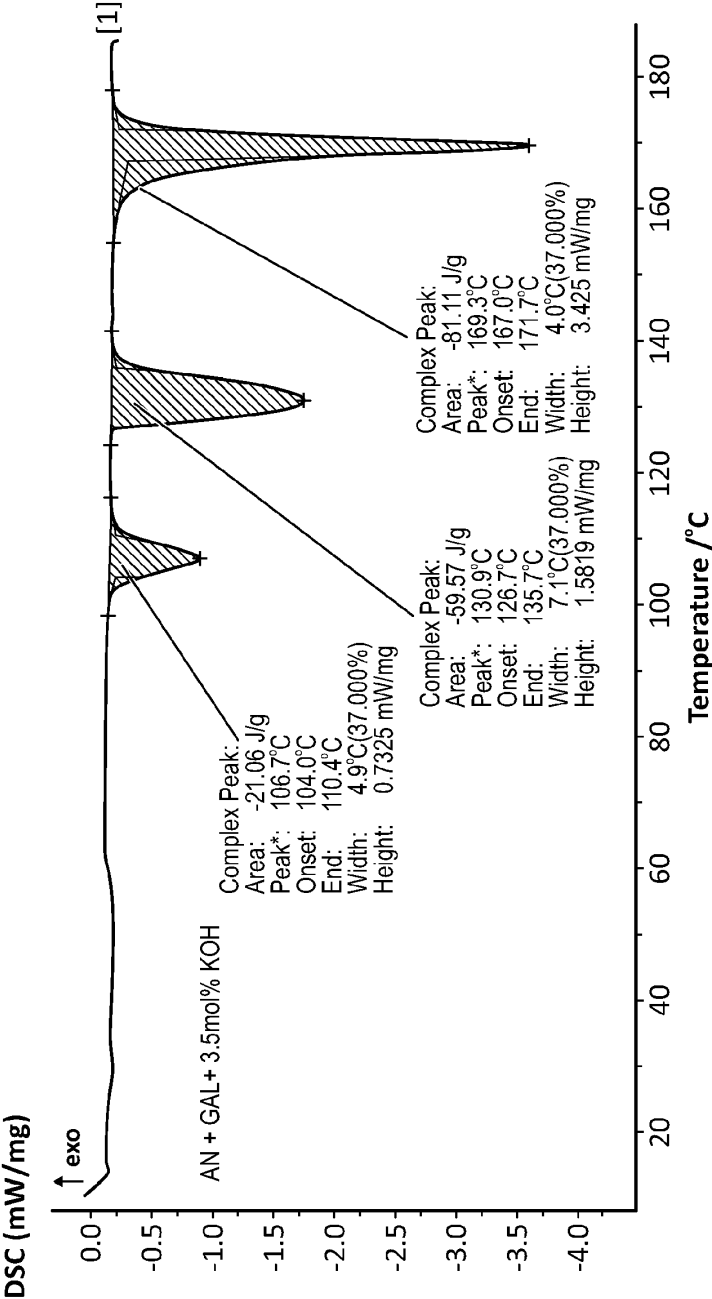


FIG. 4

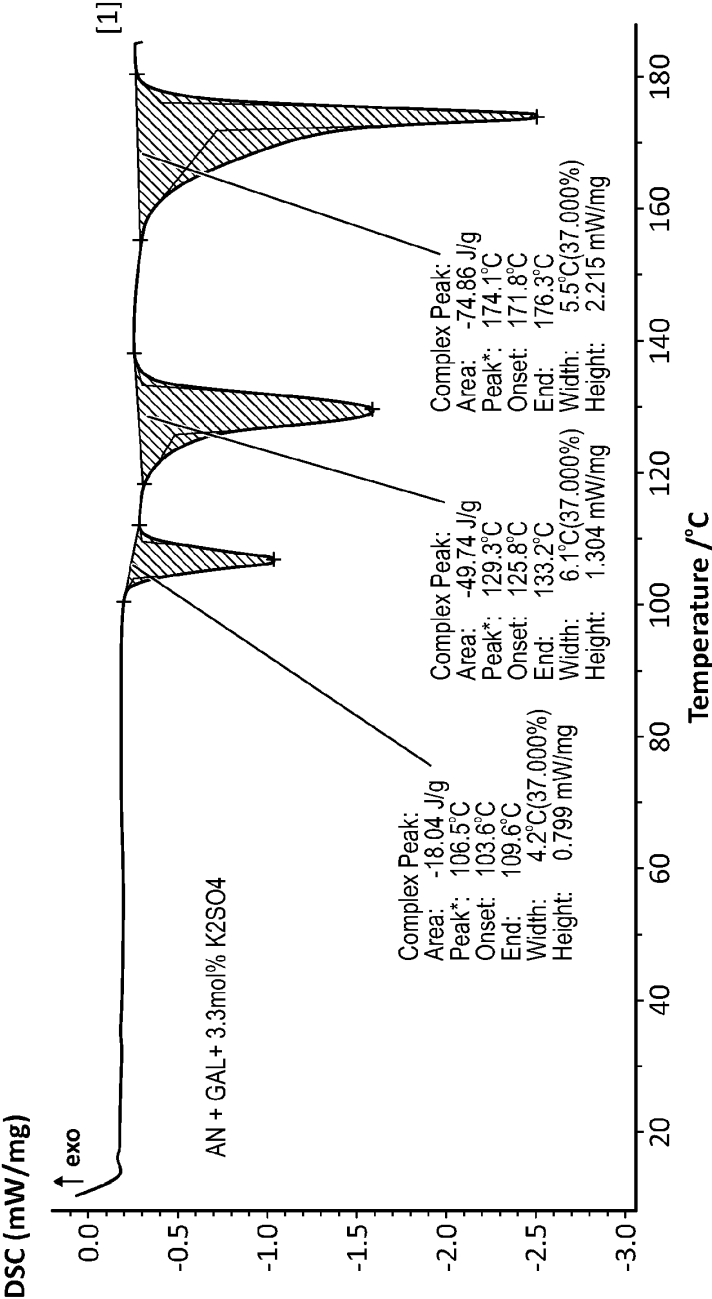


FIG. 5

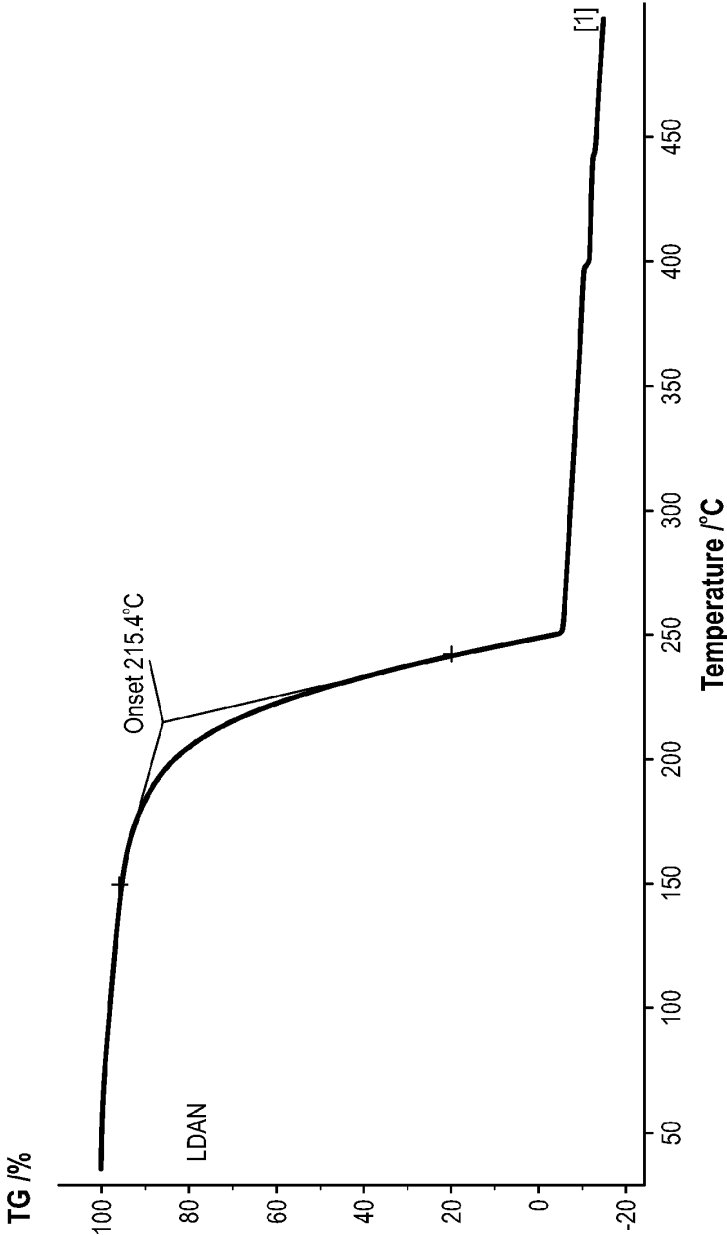


FIG. 6

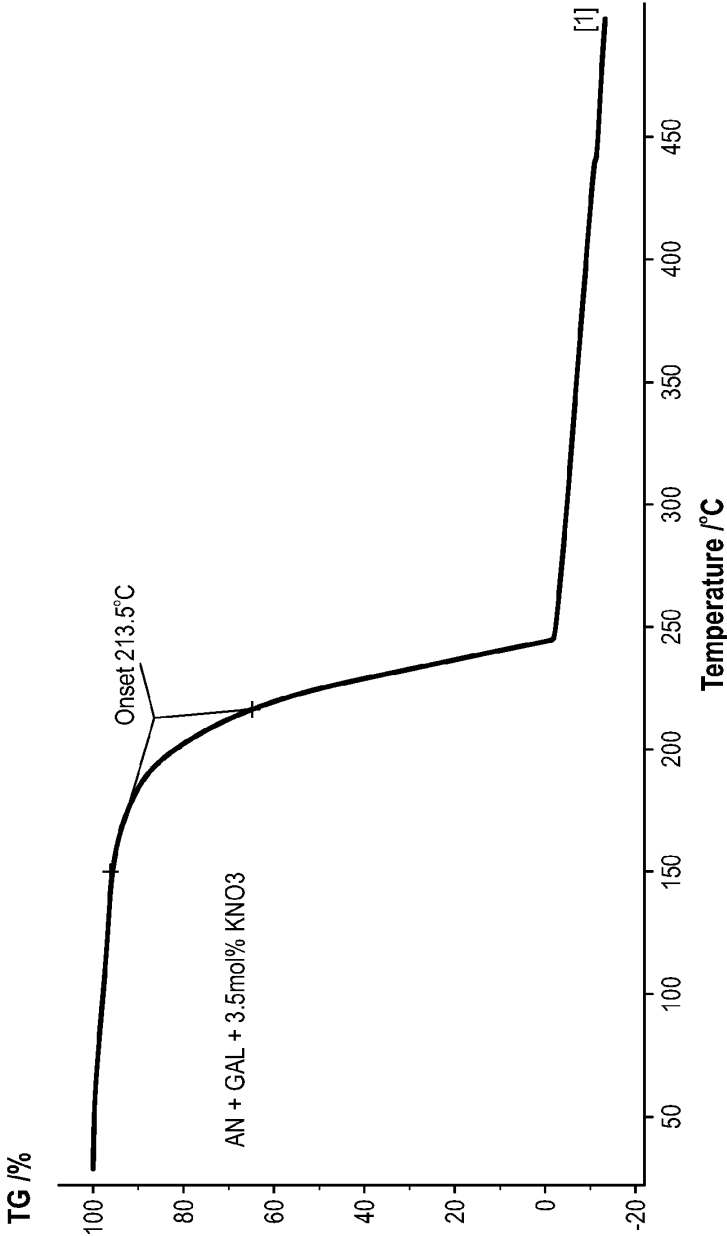


FIG. 7

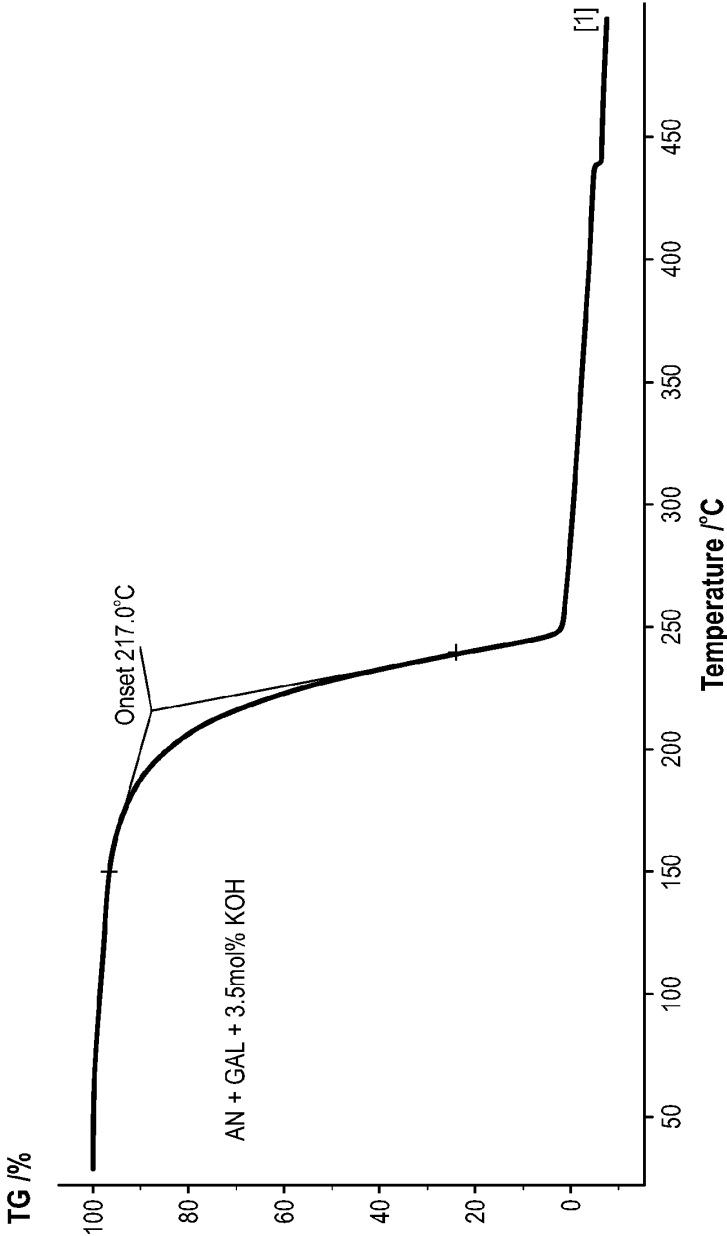


FIG. 8

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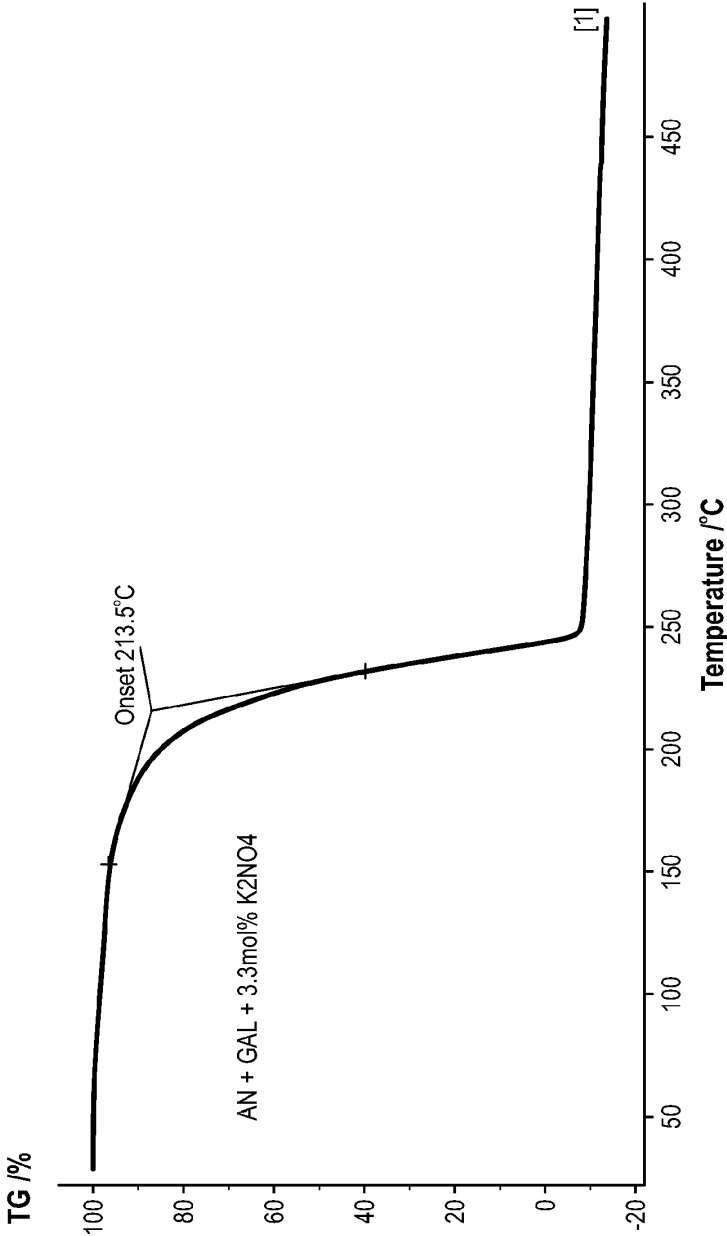


FIG. 9

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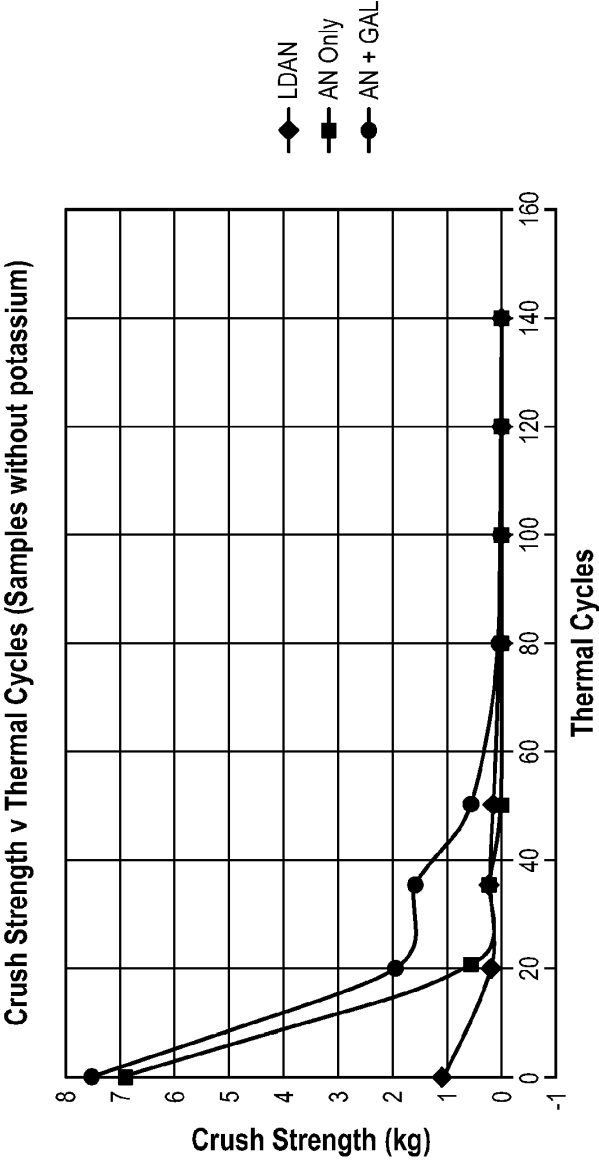


FIG. 10

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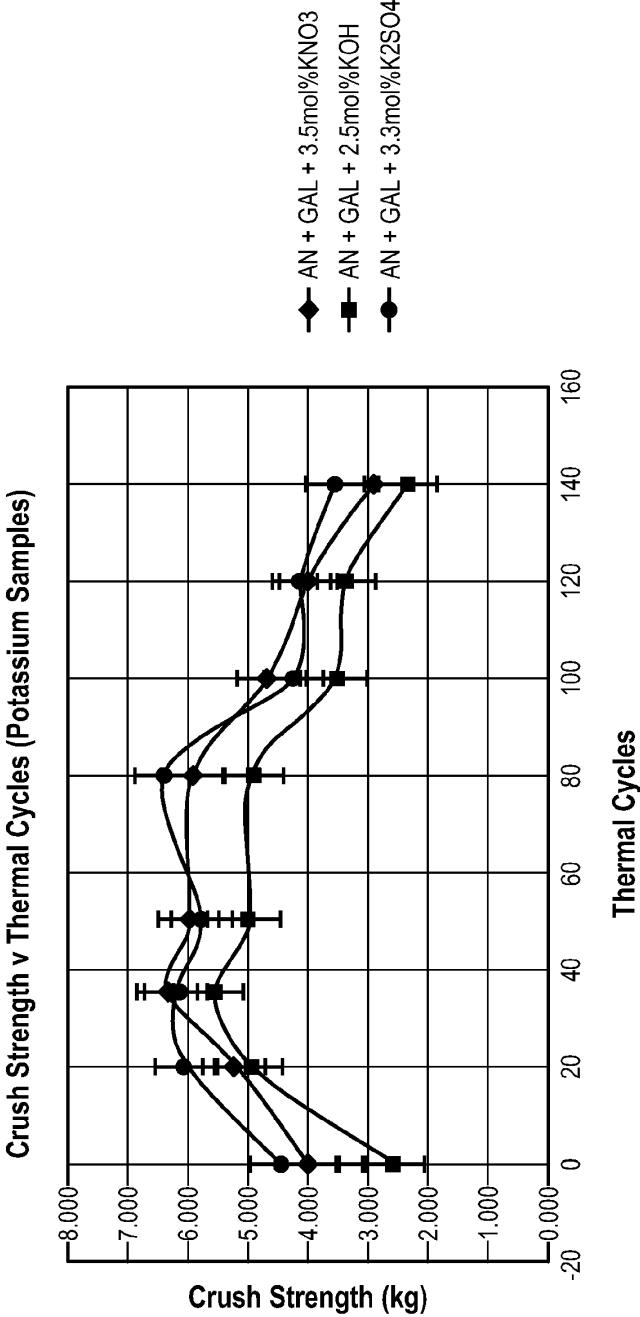


FIG. 11

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Sample	Average Crush Strength (kg) Initial (0 cycles)	Average Crush Strength (kg) 20 cycles	%Change from Initial Average Crush Strength (20 cycles)	Average Crush Strength (kg) 50 cycles	%Change from Initial Average Crush Strength (35 cycles)	Average Crush Strength (kg) 75 cycles	%Change from Initial Average Crush Strength (75 cycles)
AN Only	2.480	1.066	-57.0	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust
AN+GAL	2.850	0.485	-83.0	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust
AN+KNO ₃ (3.5 mol%)	0.453	0.334	-26.3	0.234	-48.3	0.070	-84.5
AN+GAL +3.5 mol% KNO ₃	1.657	1.989	20.0	2.234	34.8	3.289	98.5
Sample	Average Crush Strength (kg) Initial (0 cycles)	Average Crush Strength (kg) 100 cycles	%Change from Initial Average Crush Strength (100 cycles)	Average Crush Strength (kg) 150 cycles	%Change from Initial Average Crush Strength (150 cycles)	Average Crush Strength (kg) 200 cycles	%Change from Initial Average Crush Strength (200 cycles)
AN Only	2.480	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust
AN+GAL	2.850	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust
AN+KNO ₃ (3.5 mol%)	0.453	0.042	-90.7	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust	Unable to Crush – sample is dust
AN+GAL +3.5 mol% KNO ₃	1.657	3.085	86.2	2.522	52.2	2.766	66.9

FIG. 12

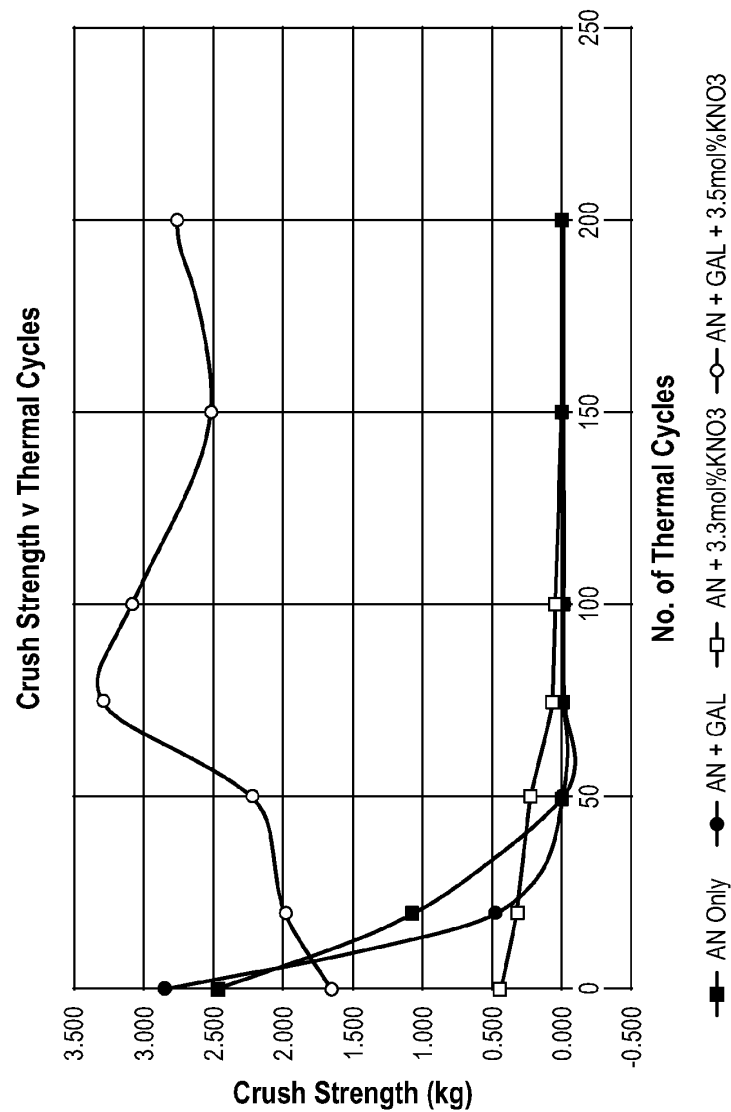


FIG. 13

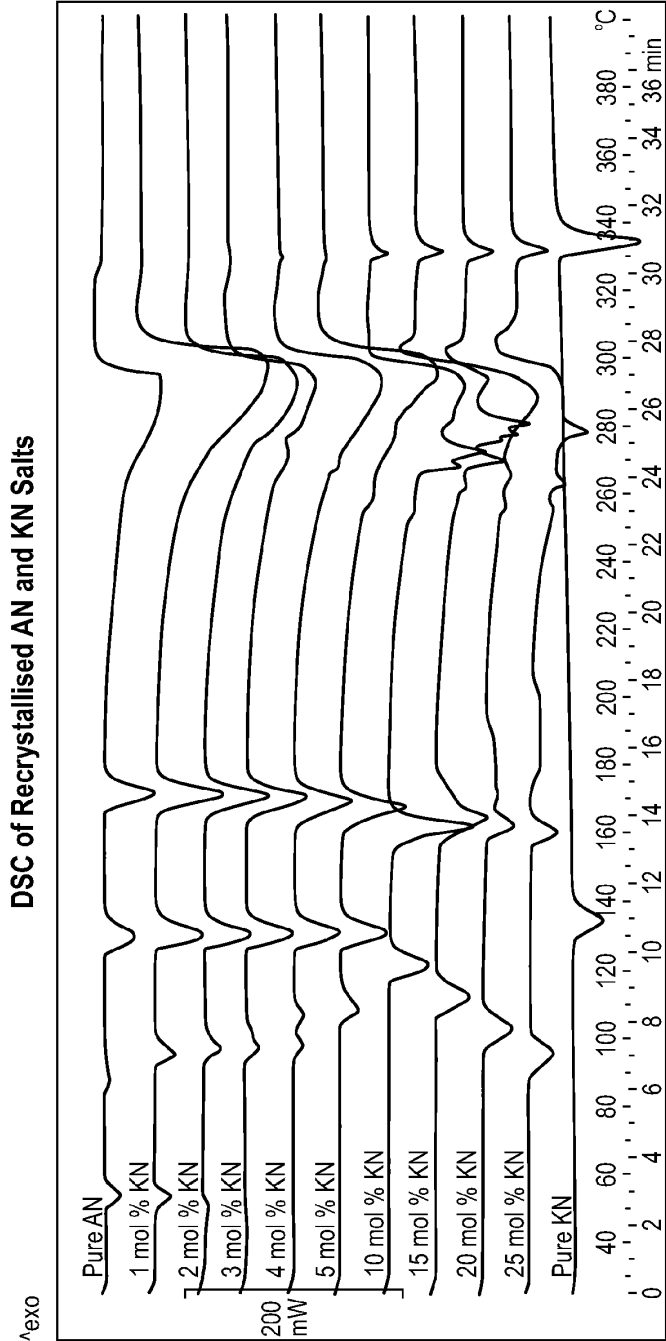


FIG. 14

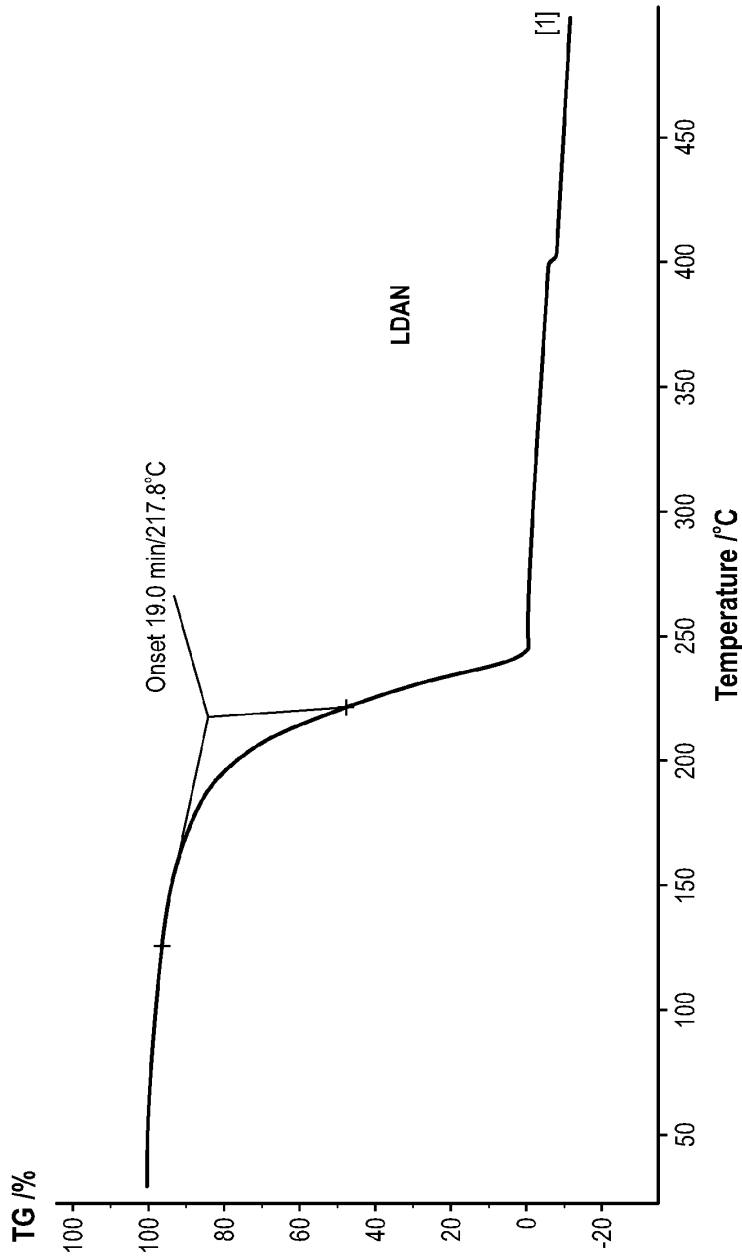


FIG. 15

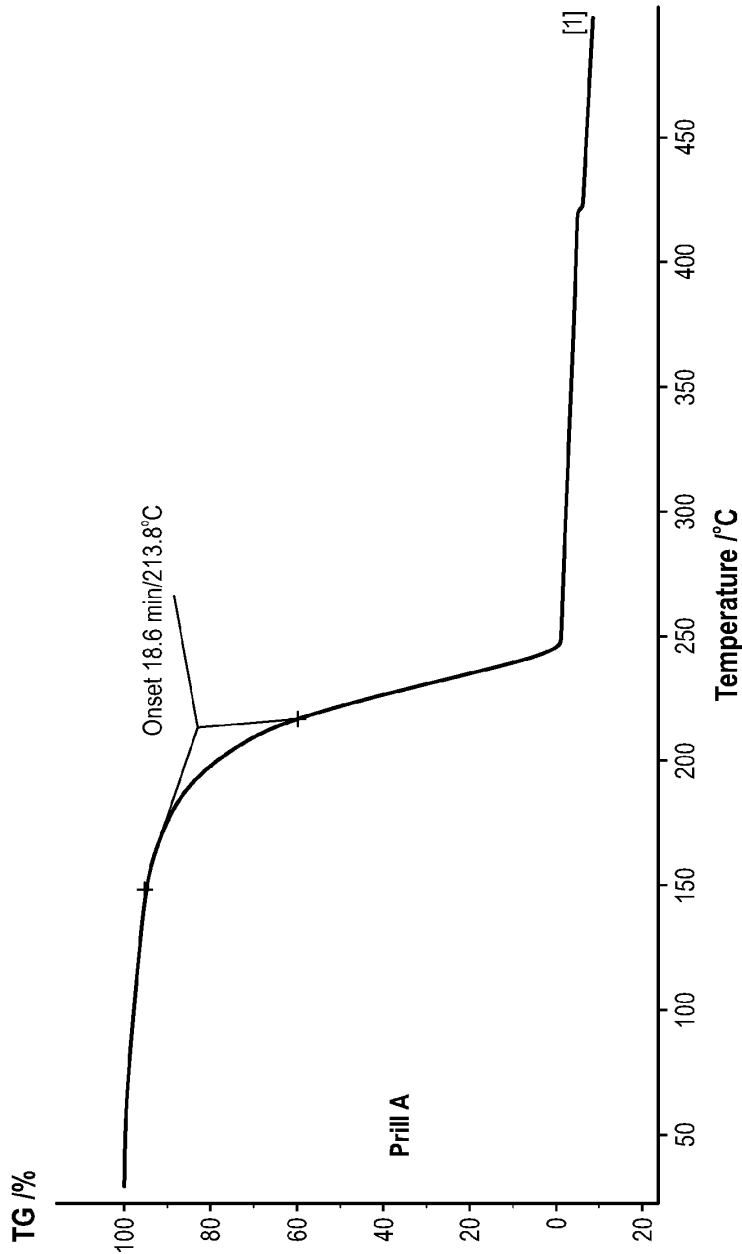


FIG. 16

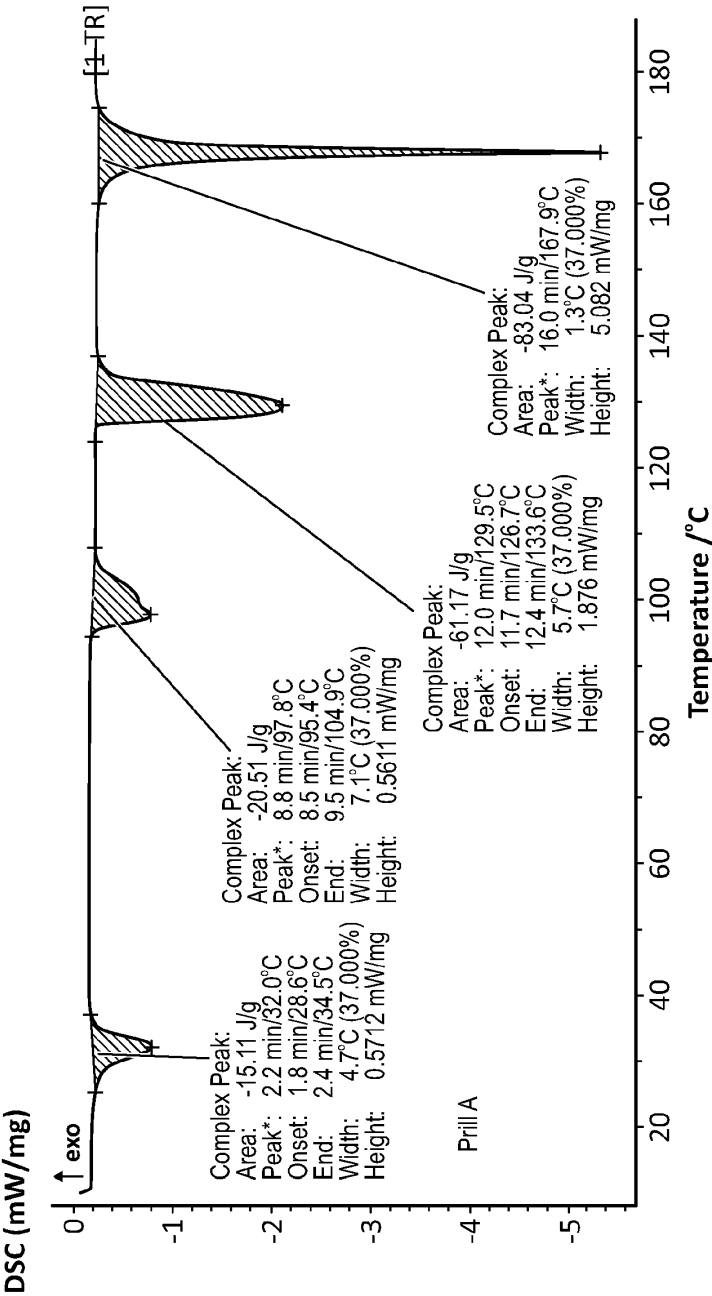


FIG. 17

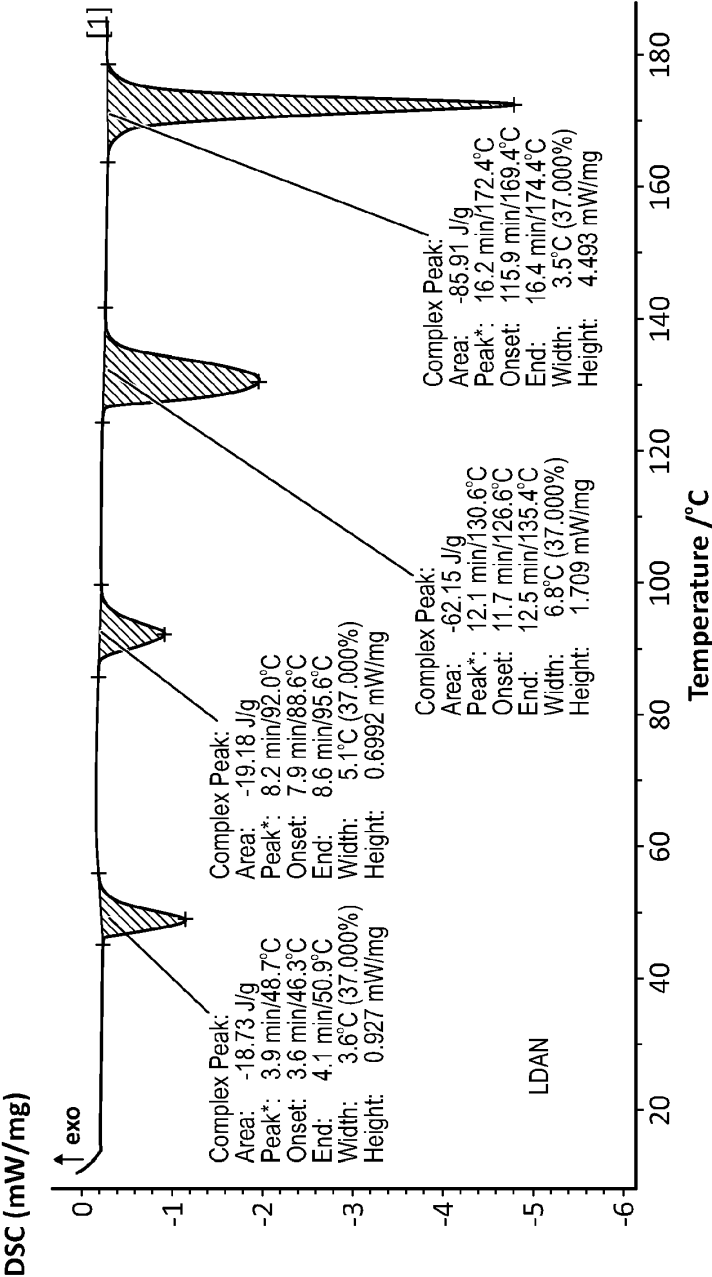


FIG. 18

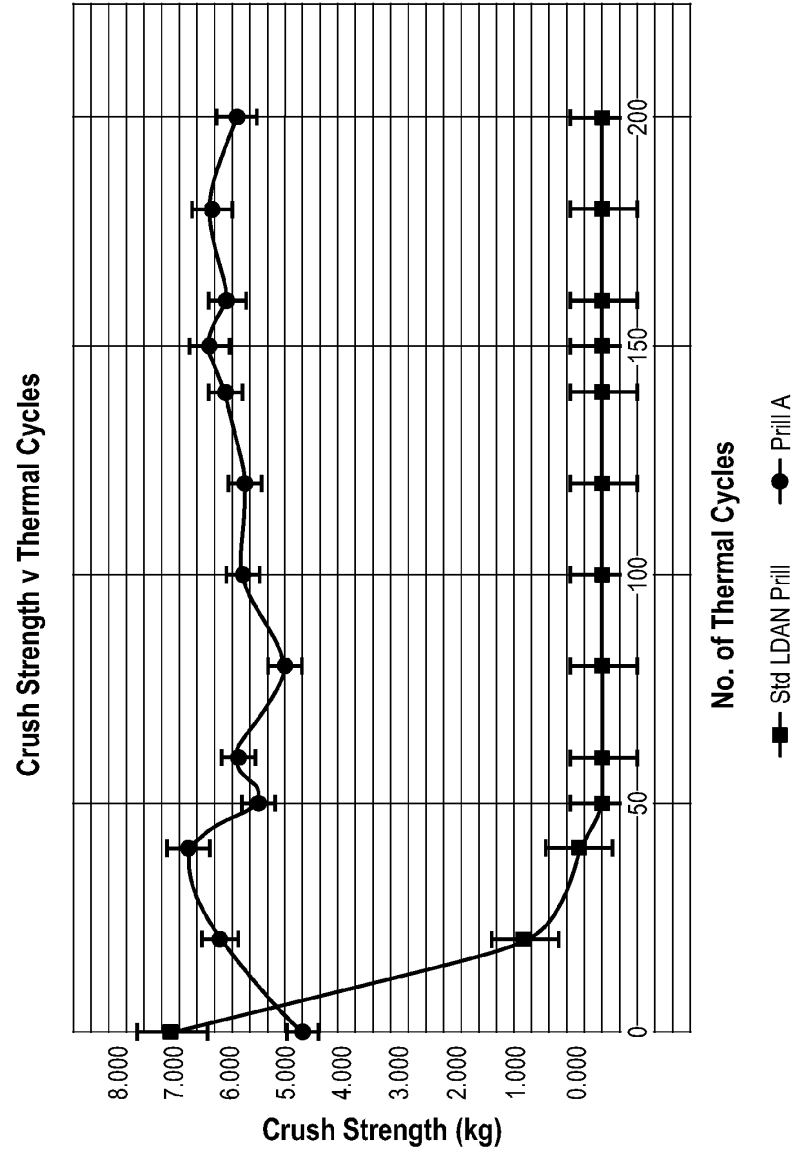


FIG. 19

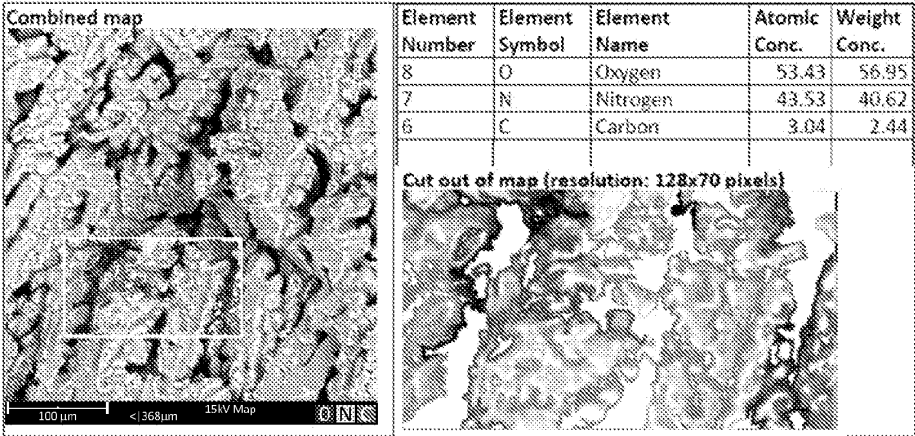


FIG. 20A

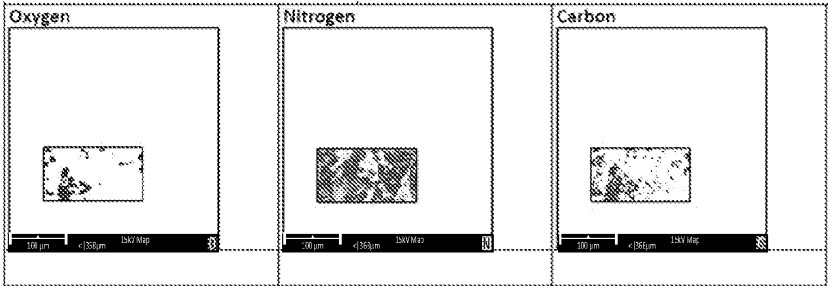


FIG. 20B

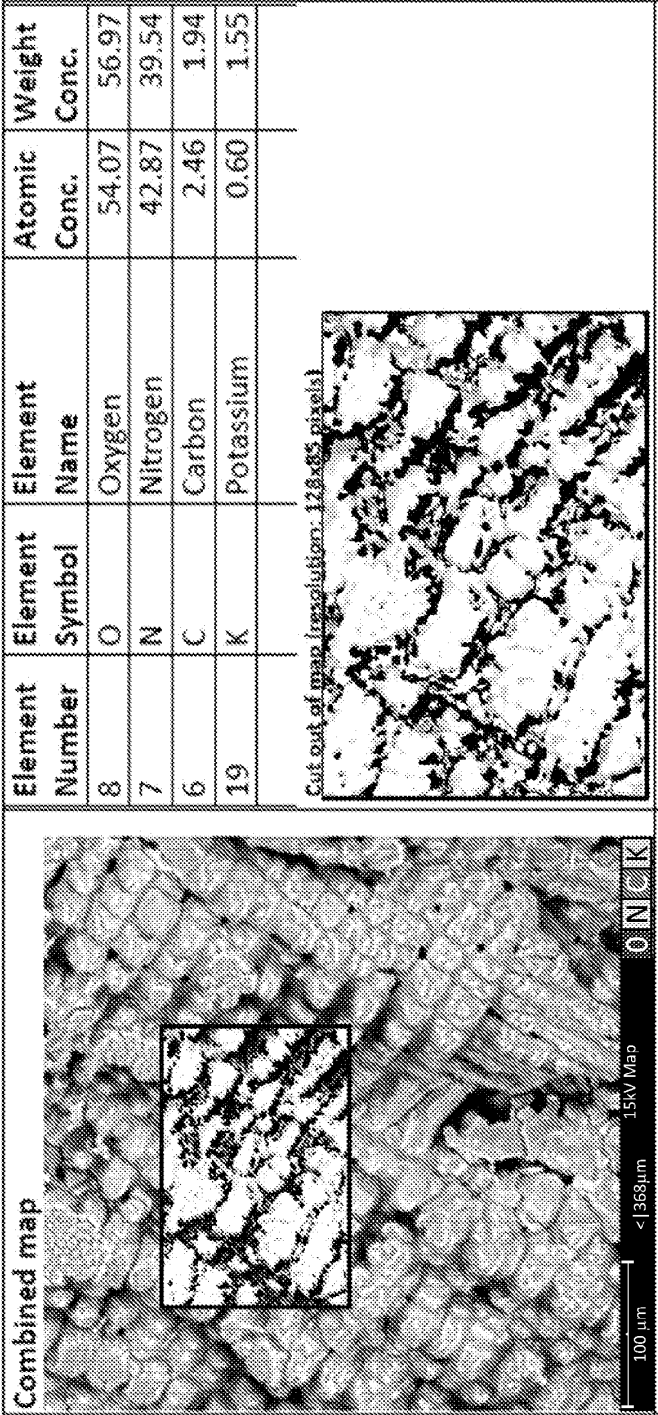


FIG. 21A

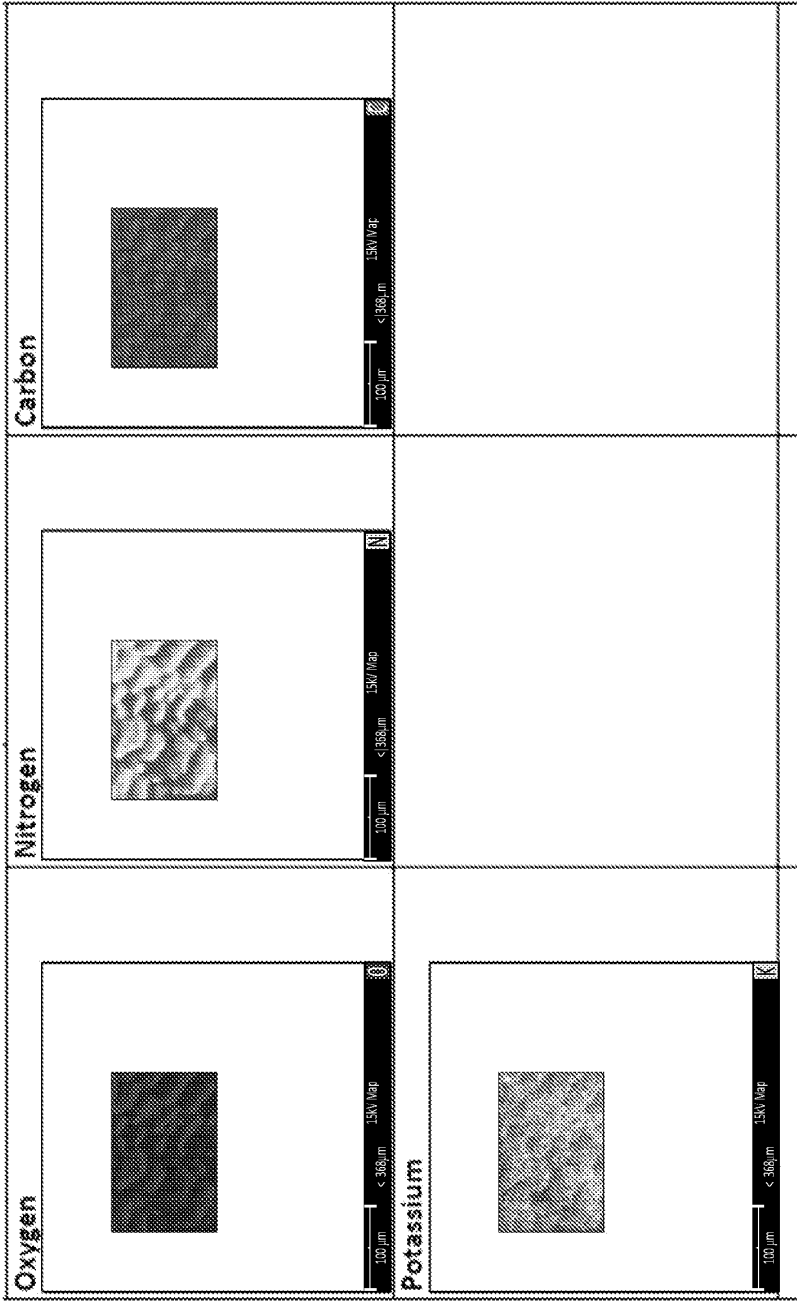


FIG. 21B

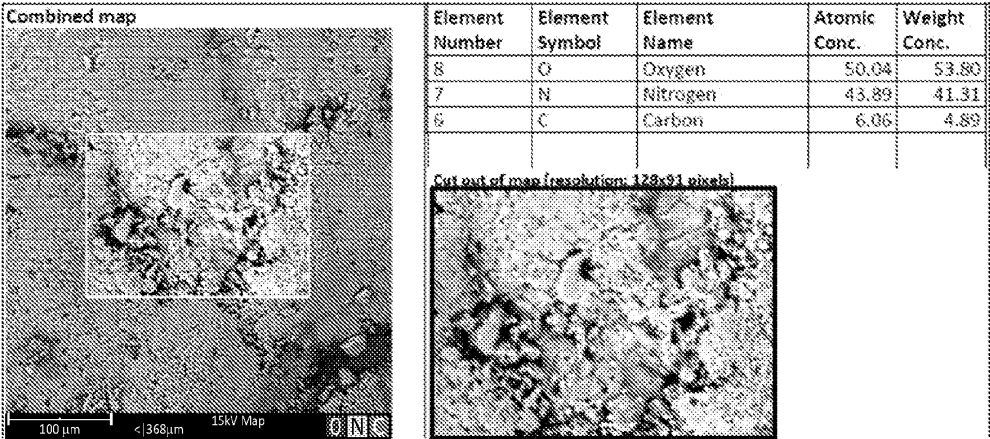


FIG. 22A

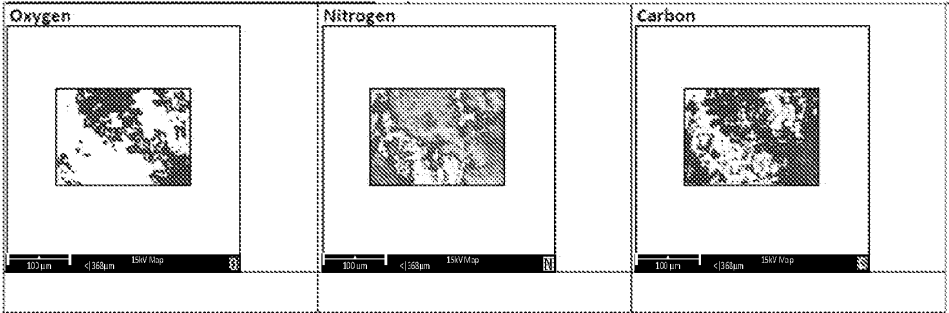


FIG. 22B

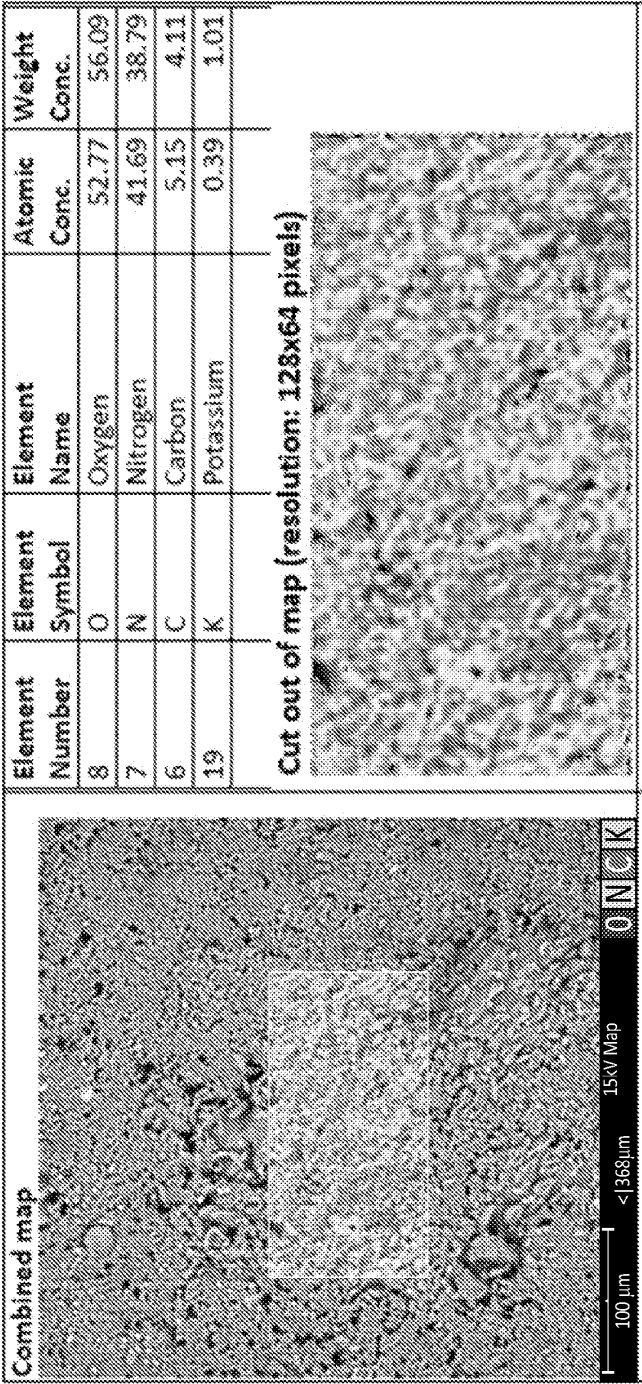


FIG. 23A

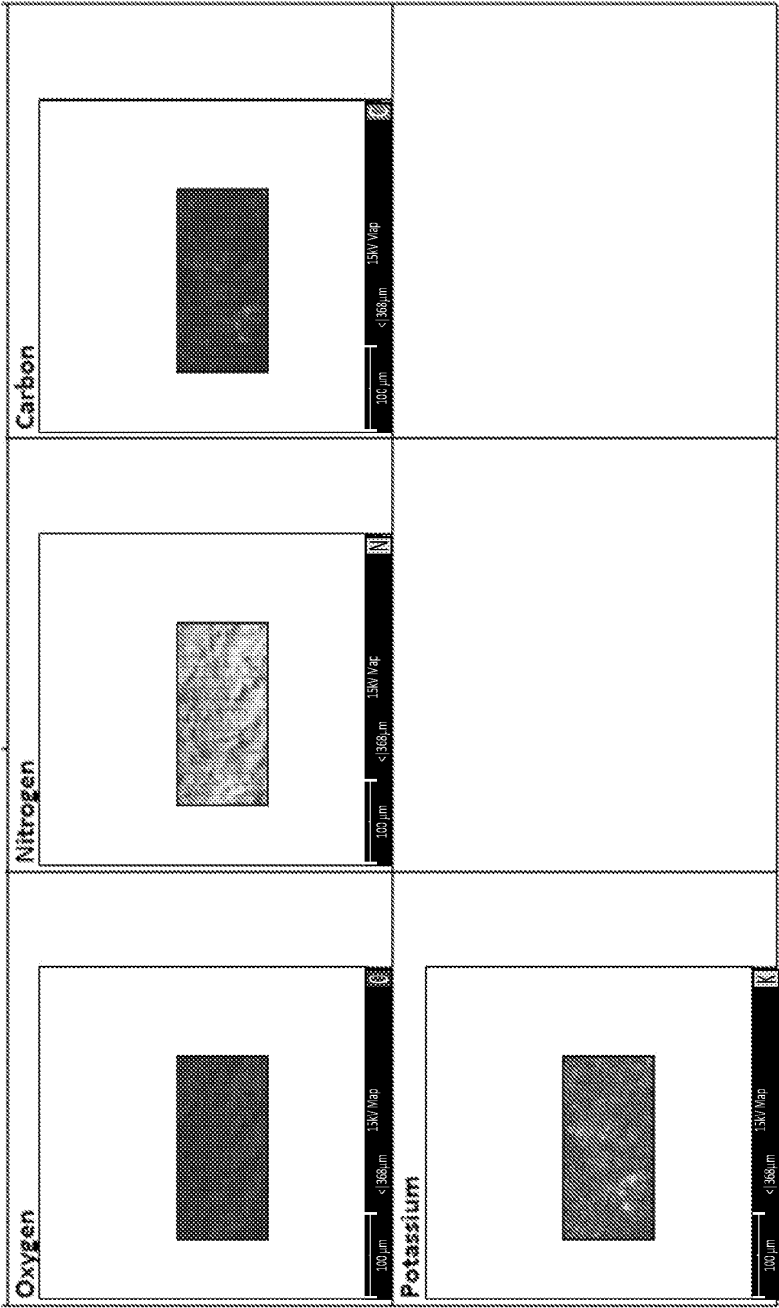


FIG. 23B

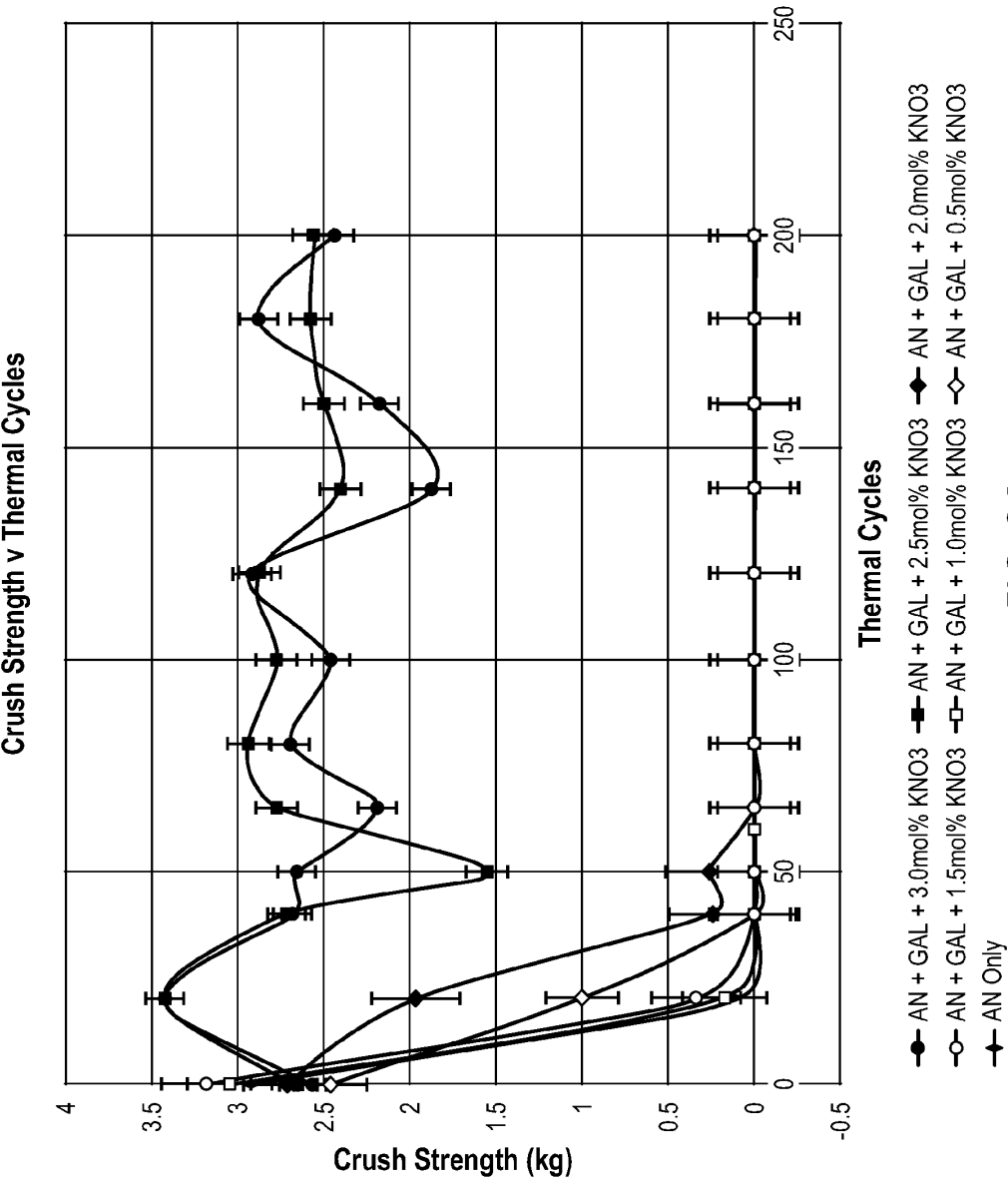


FIG. 24

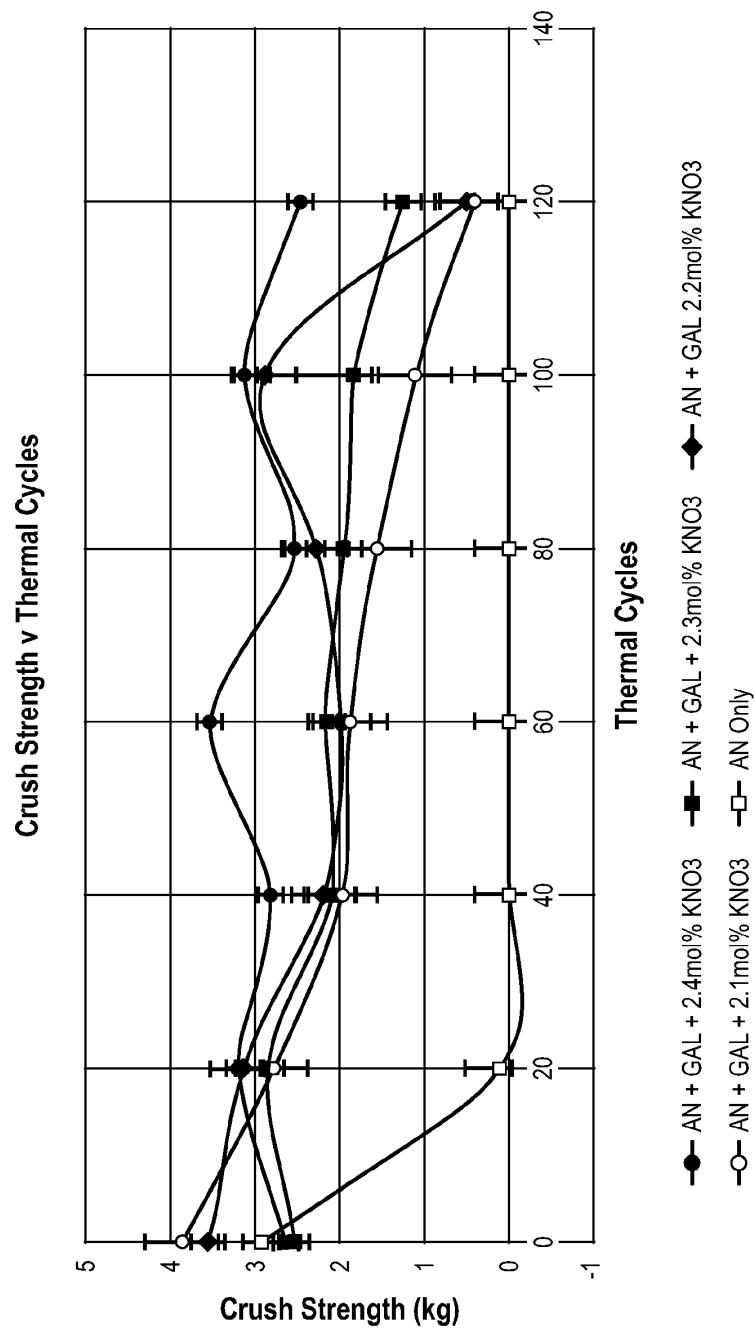


FIG. 25

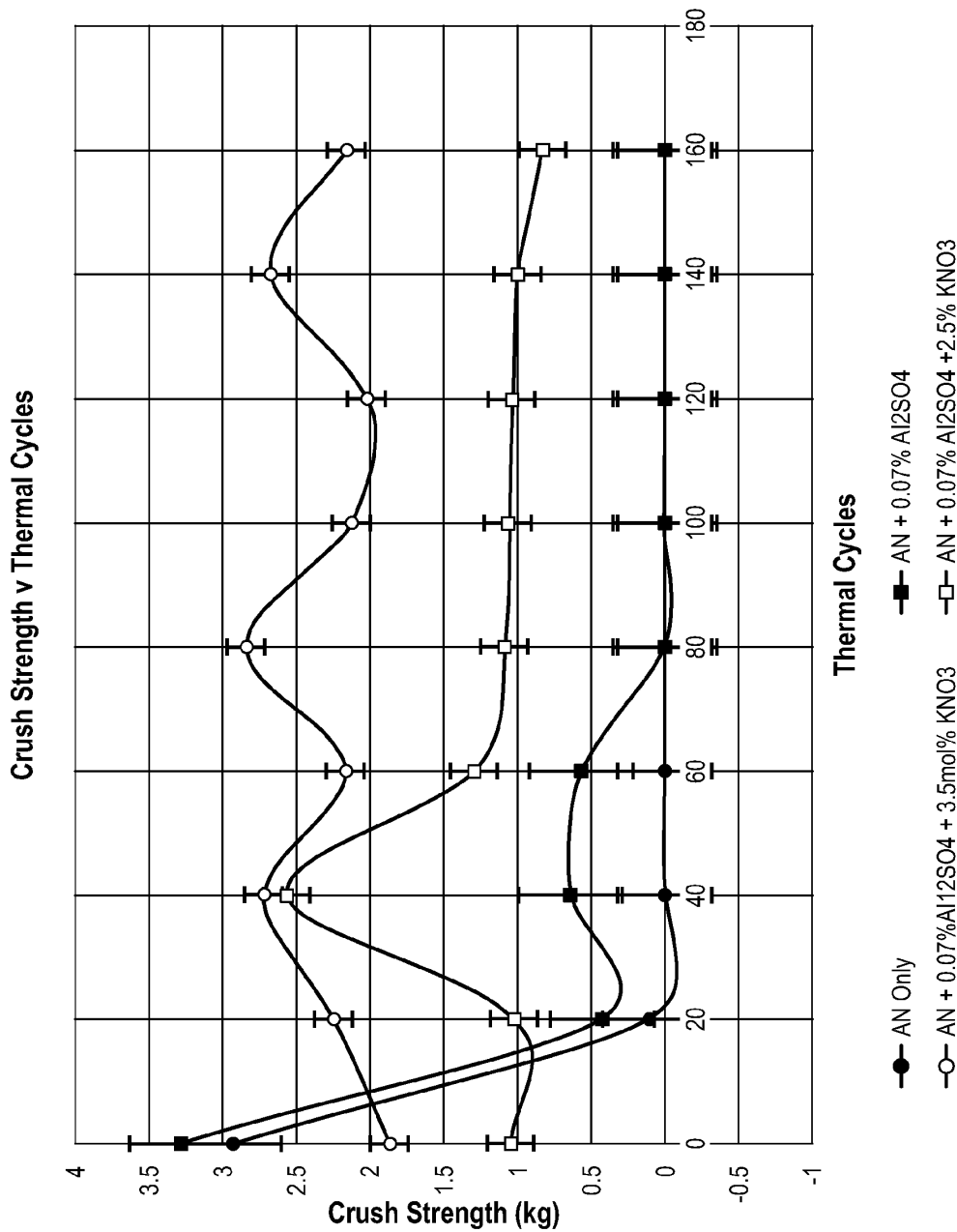


FIG. 26