

FIG. 1

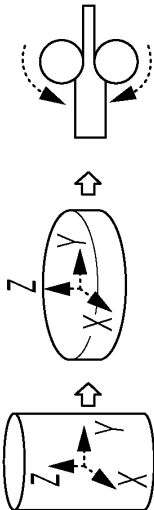


FIG. 2

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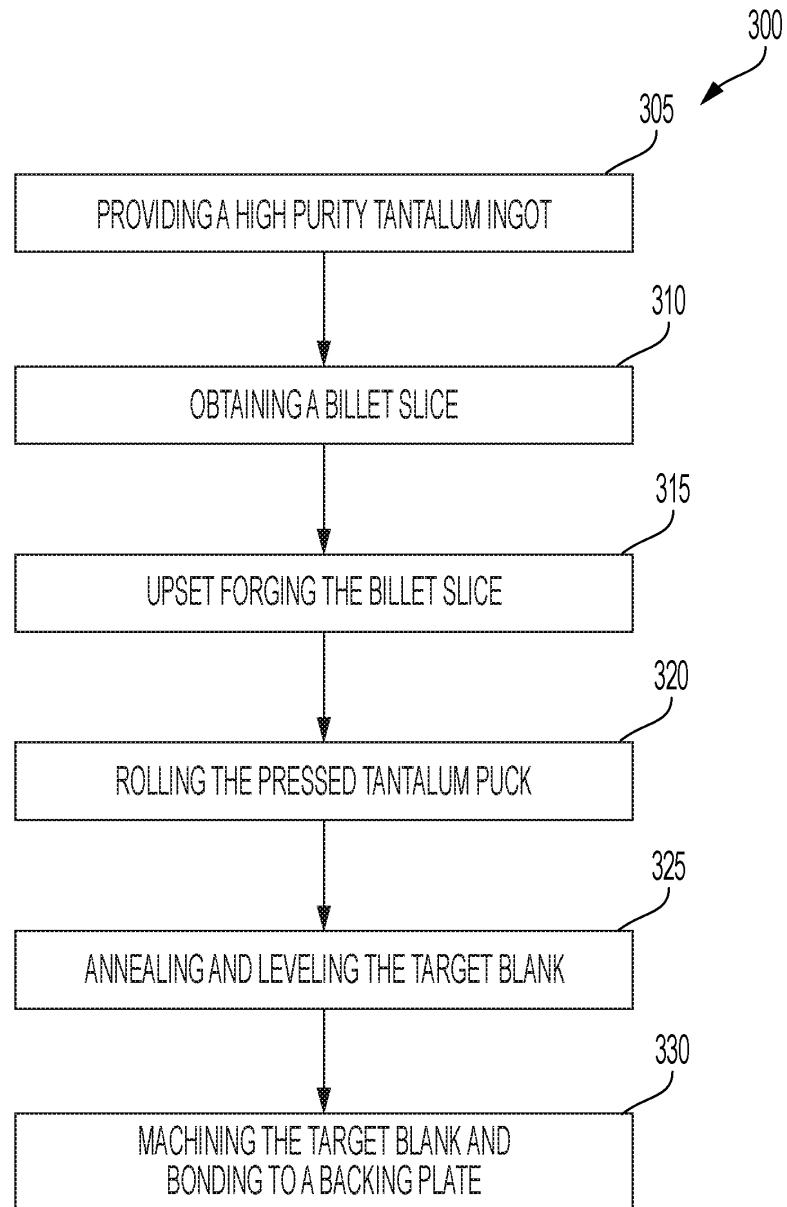


FIG. 3

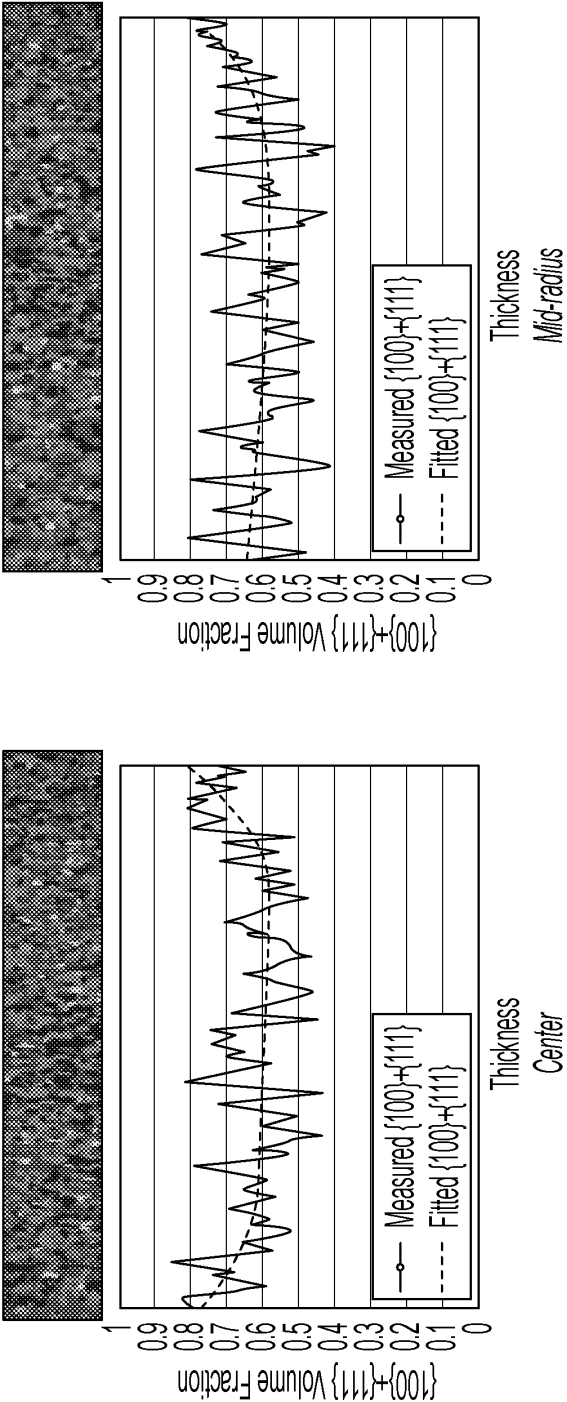


FIG. 4B

FIG. 4A

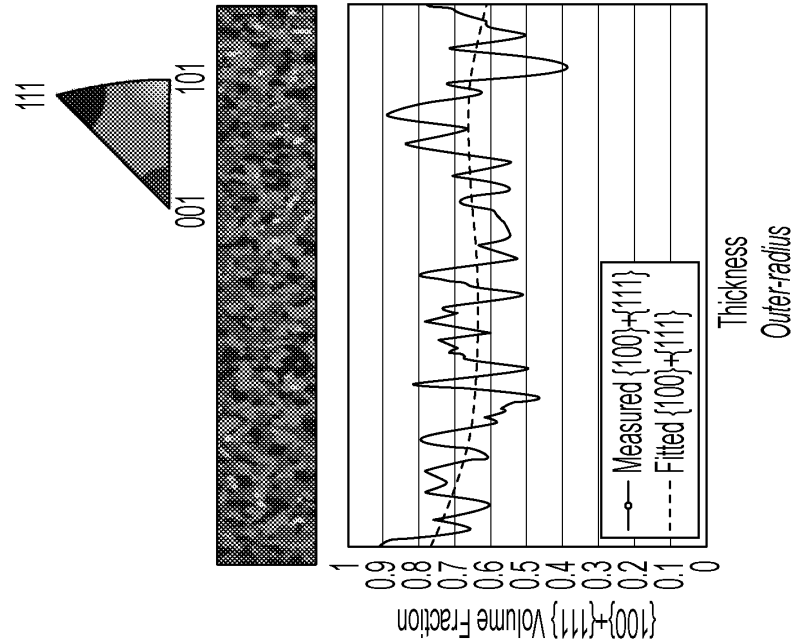


FIG. 4C

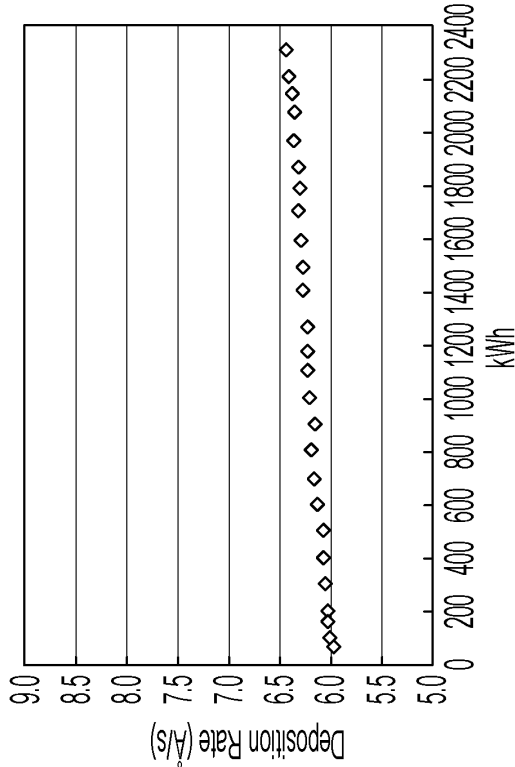


FIG. 5B

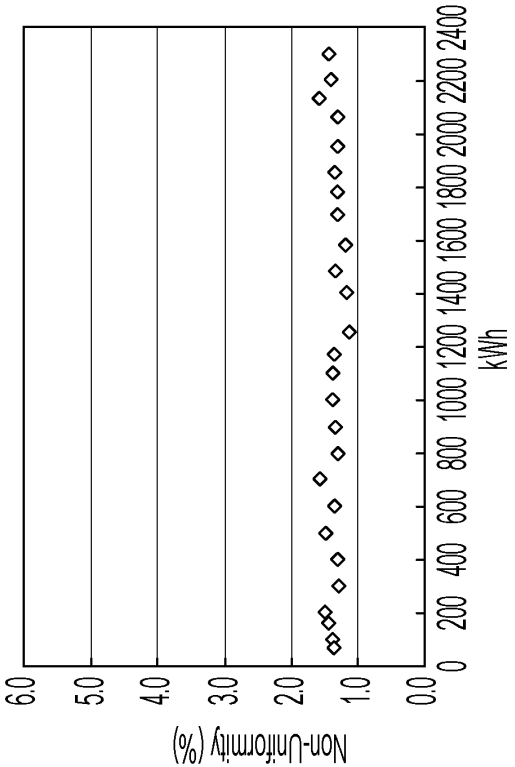


FIG. 5A

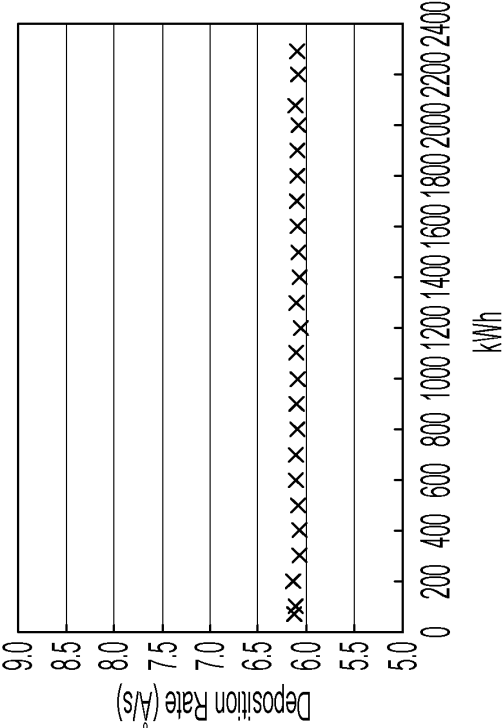


FIG. 6B

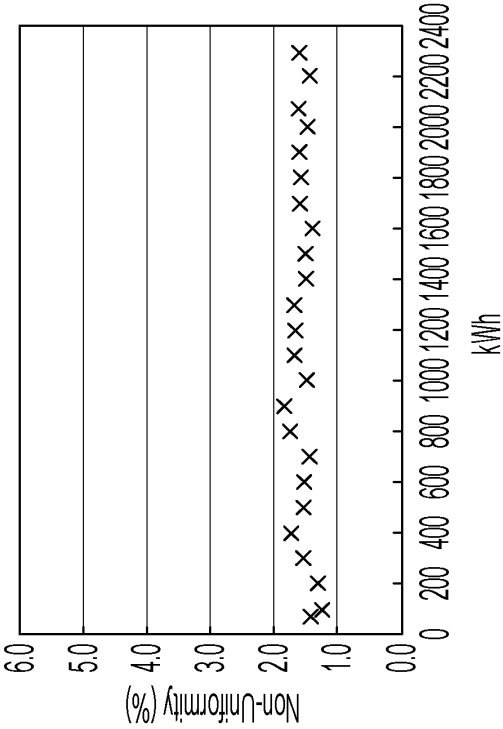
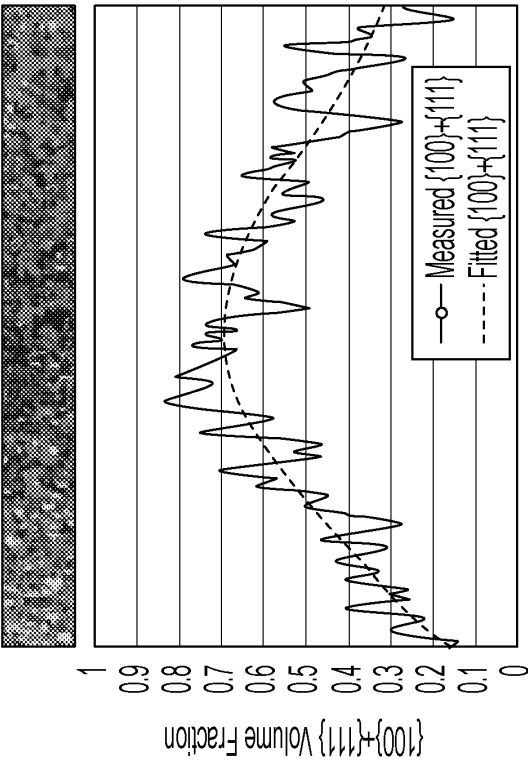
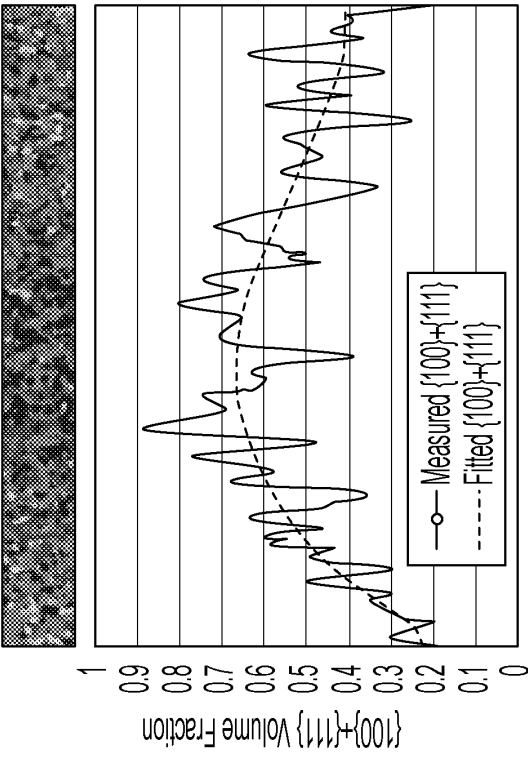


FIG. 6A



Thickness
Mid-radius

FIG. 7B



Thickness
Center

FIG. 7A

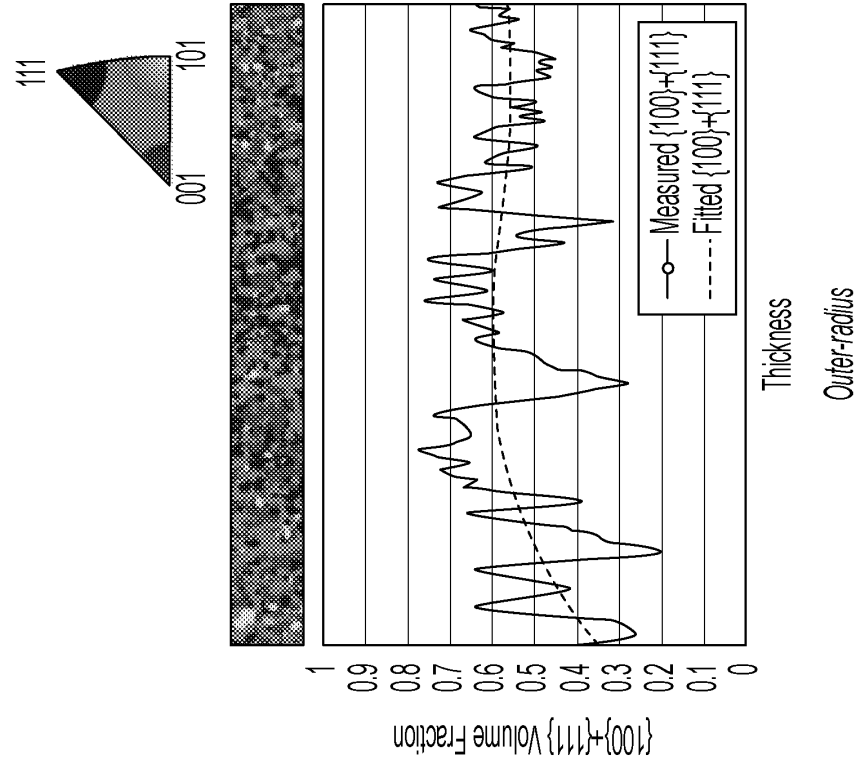


FIG. 7C

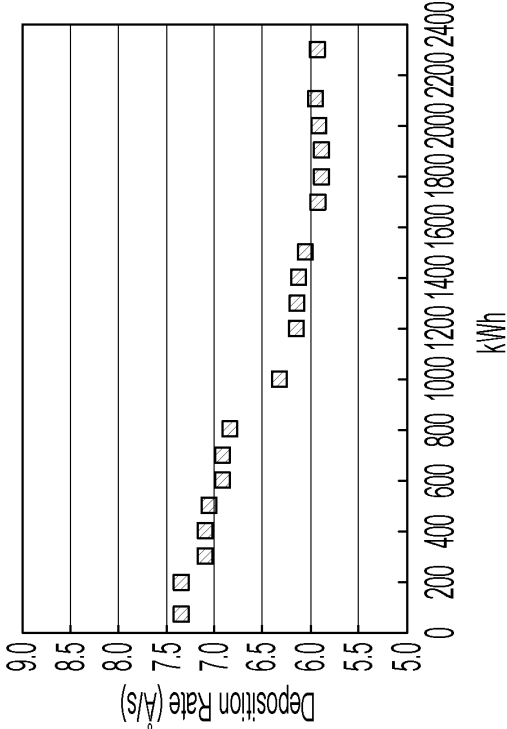


FIG. 8B

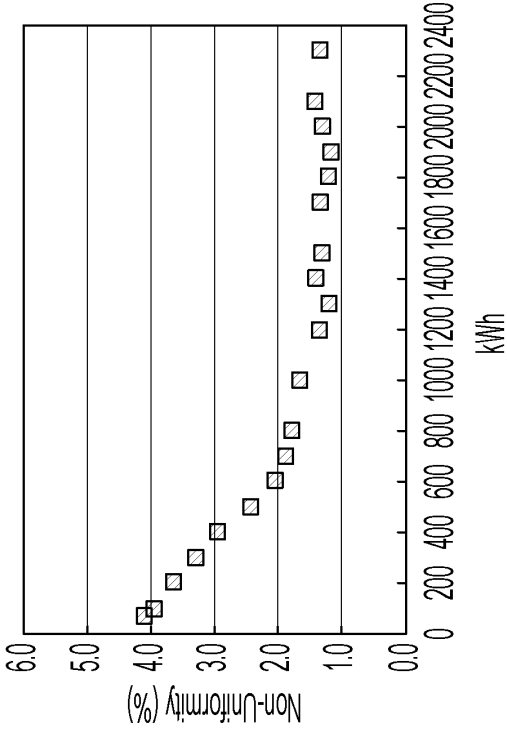


FIG. 8A

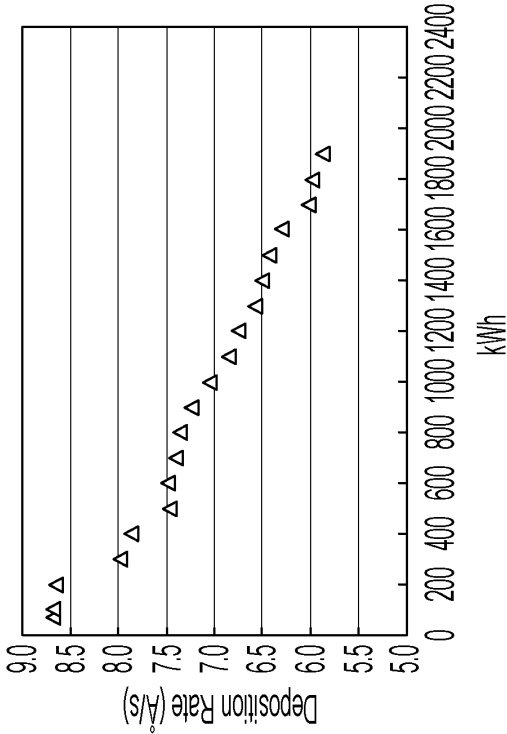


FIG. 9B

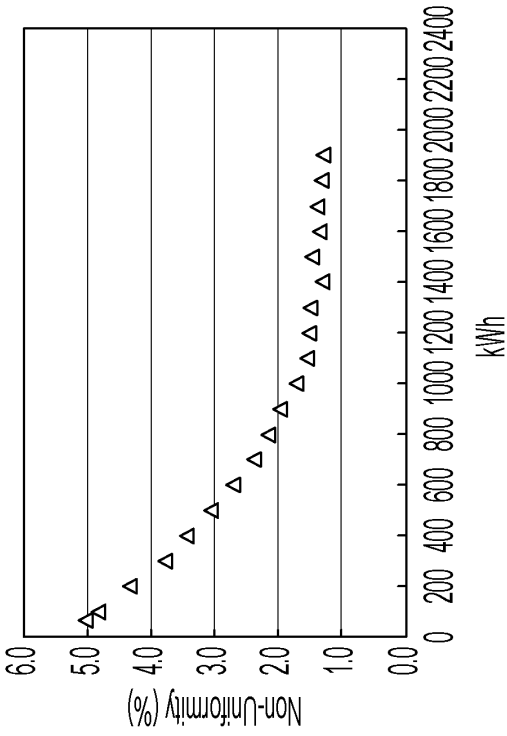


FIG. 9A

Tantalum Target	Process	Upset Forge Reduction	Rolling Reduction per Pass	Through thickness Average			Through Thickness Standard Deviation			Through thickness Non-Uniformity		
				Center	Mid Radius	Outer Radius	Center	Mid Radius	Outer Radius	Center	Mid Radius	Outer Radius
Example 1	New	31%	6-11% (varying)	0.63	0.61	0.66	0.09	0.09	0.10	14.9%	14.6%	15.2%
Comparative Example 1	Prior	58%	12%	0.52	0.51	0.55	0.15	0.17	0.12	28.0%	32.3%	22.5%

FIG. 10

Tantalum Target	Process	Upset Forge Reduction	Rolling Reduction per Pass	Final Anneal Temperature (°C)	Average NU%	Range (%)	Standard Deviation (%)
Example 2	New	24%	6-11% (varying)	1,000	1.35	0.46	0.11
Example 3	New	25%	6-11% (varying)	1,000	1.55	0.61	0.14
Comparative Example 2	Prior	58%	12%	1,000	2.05	2.91	0.99
Comparative Example 3	Prior	58%	12%	1,100	2.41	3.75	1.25

FIG. 11

Tantalum Target	Process	Upset Forge Reduction	Rolling Reduction per Pass	Final Anneal Temperature (°C)	Mean Dep Rate (Å/s)	Dep Rate Range (Å/s)	Standard Deviation (Å/s)
Example 2	New	24%	6-11% (varying)	1,000	6.21	0.47	0.13
Example 3	New	25%	6-11% (varying)	1,000	6.10	0.07	0.02
Comparative Example 2	Prior	58%	12%	1,000	6.48	1.45	0.55
Comparative Example 3	Prior	58%	12%	1,100	7.16	2.81	0.89

FIG. 12