

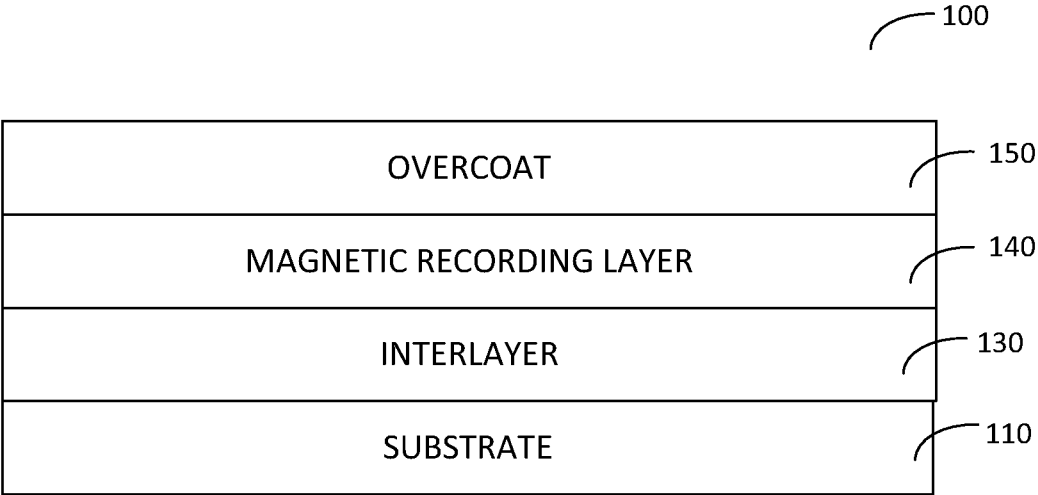


FIG. 1A

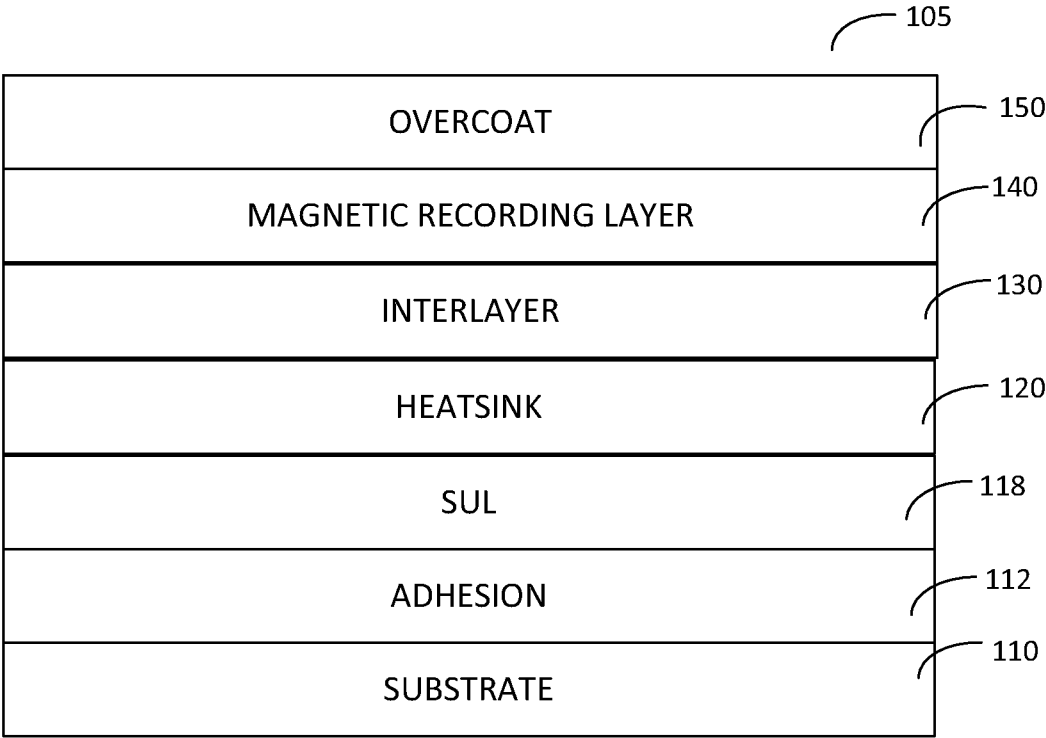
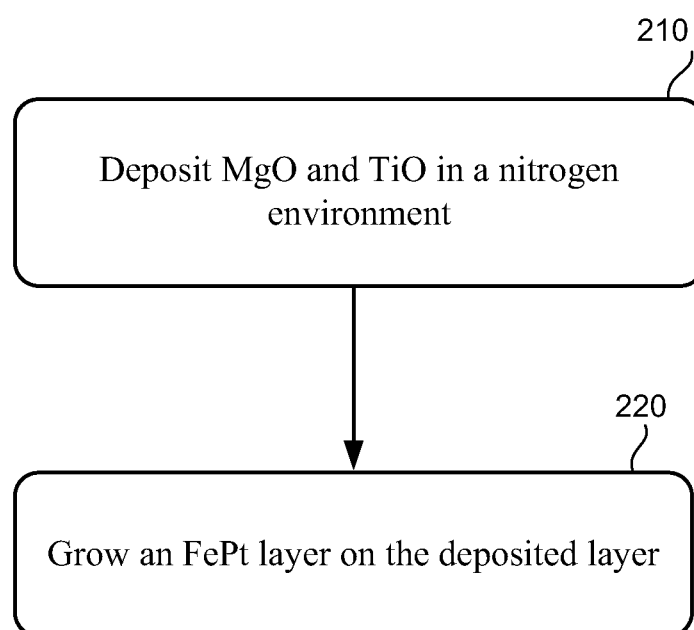


FIG. 1B

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**FIG. 2**

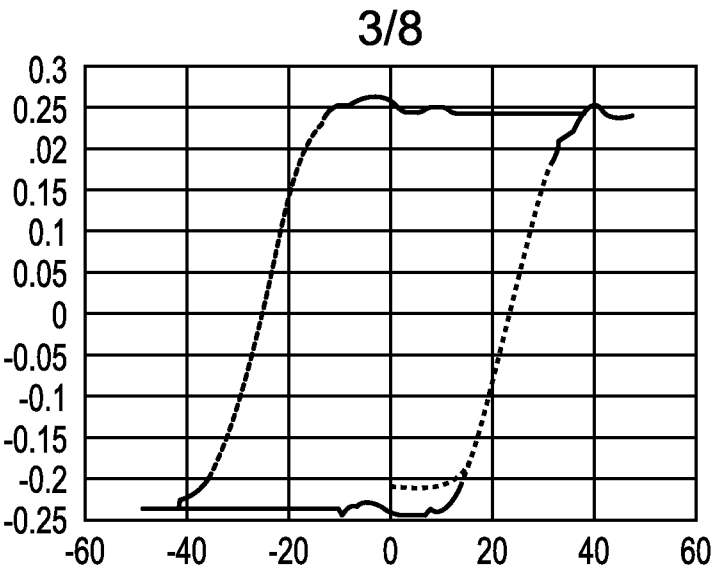


FIG. 3A

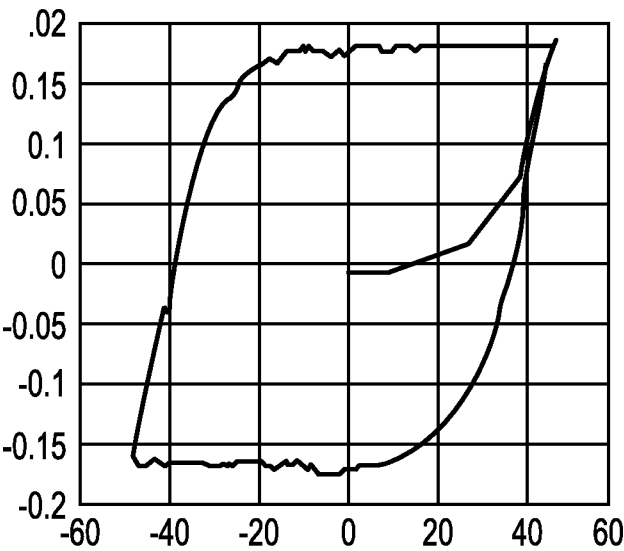


FIG. 3B

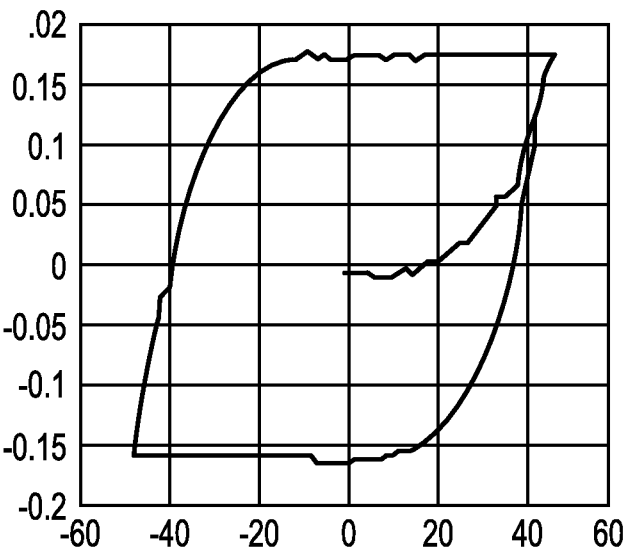


FIG. 3C

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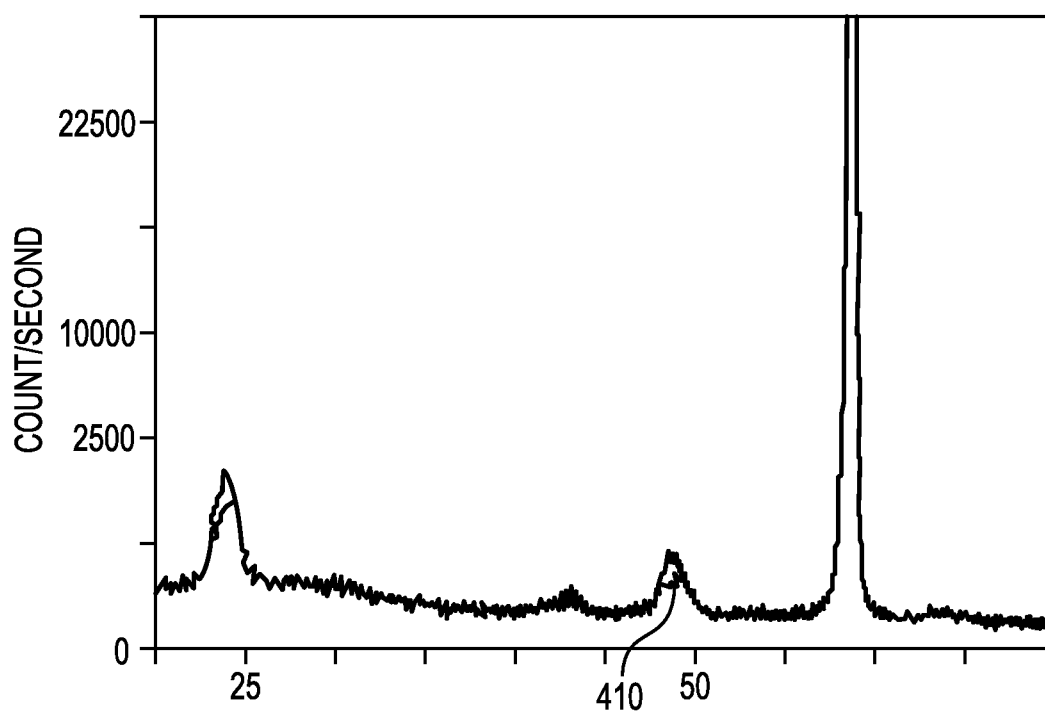


FIG. 4

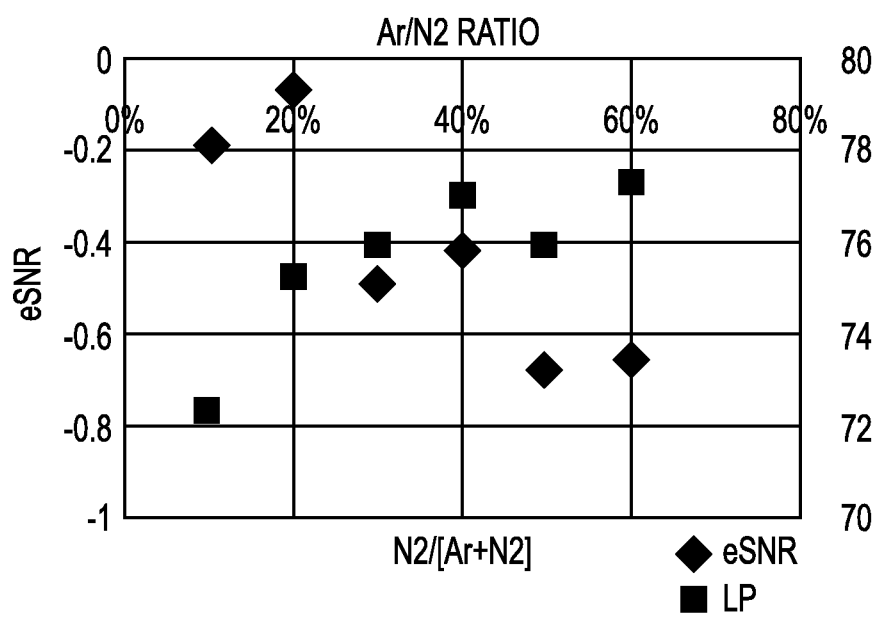
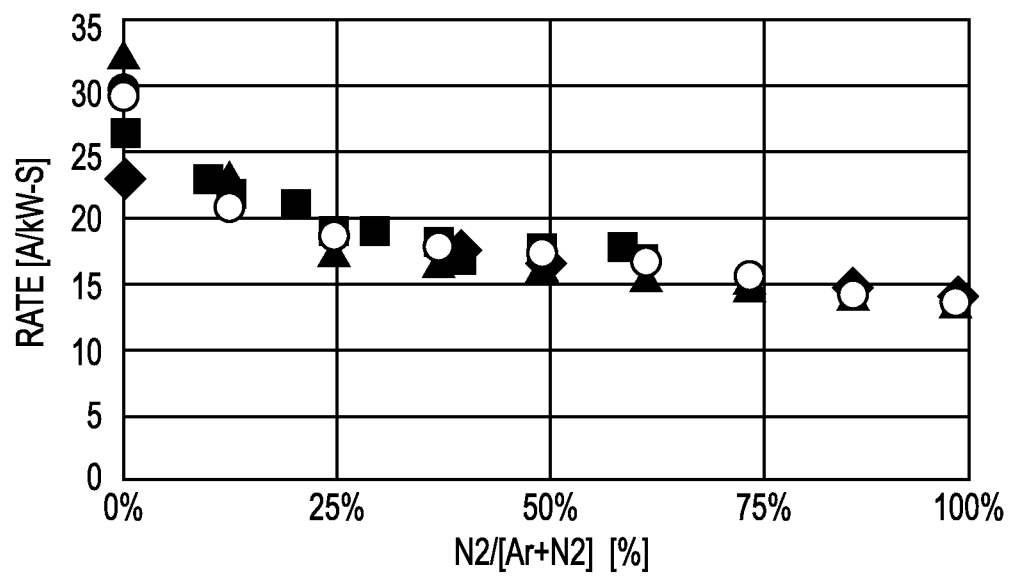


FIG. 5

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**FIG. 6**

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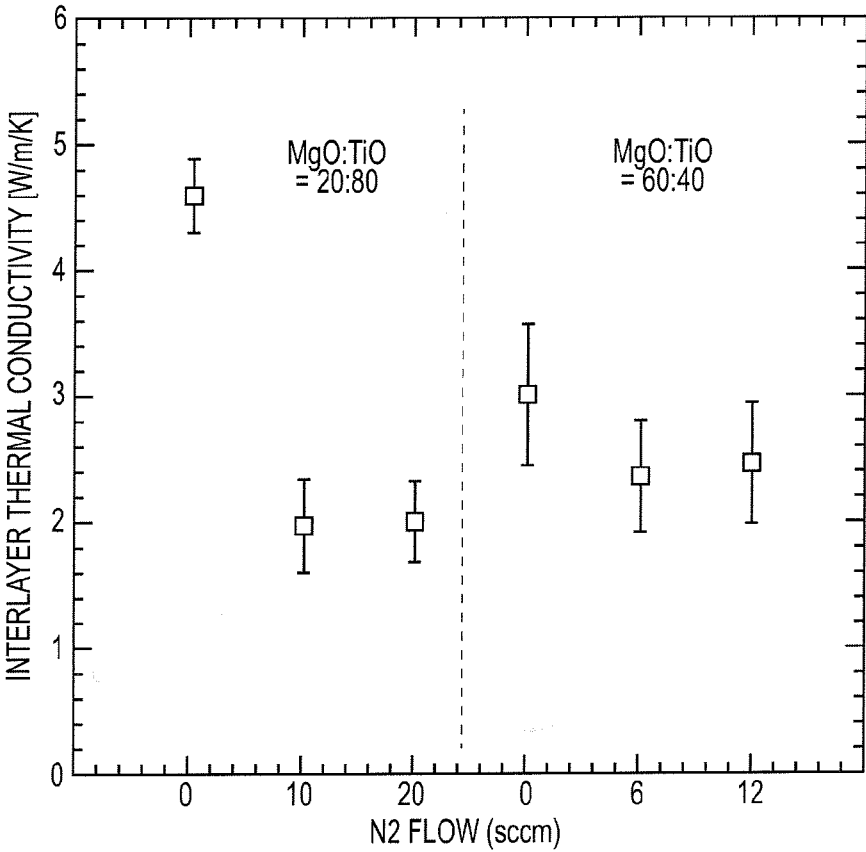


FIG 7A

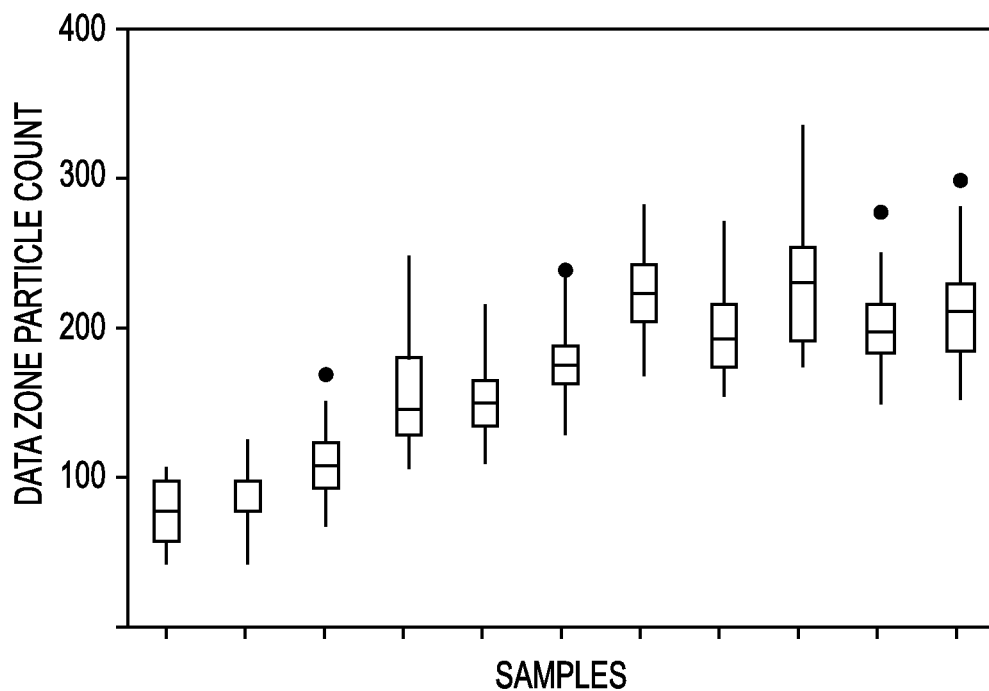
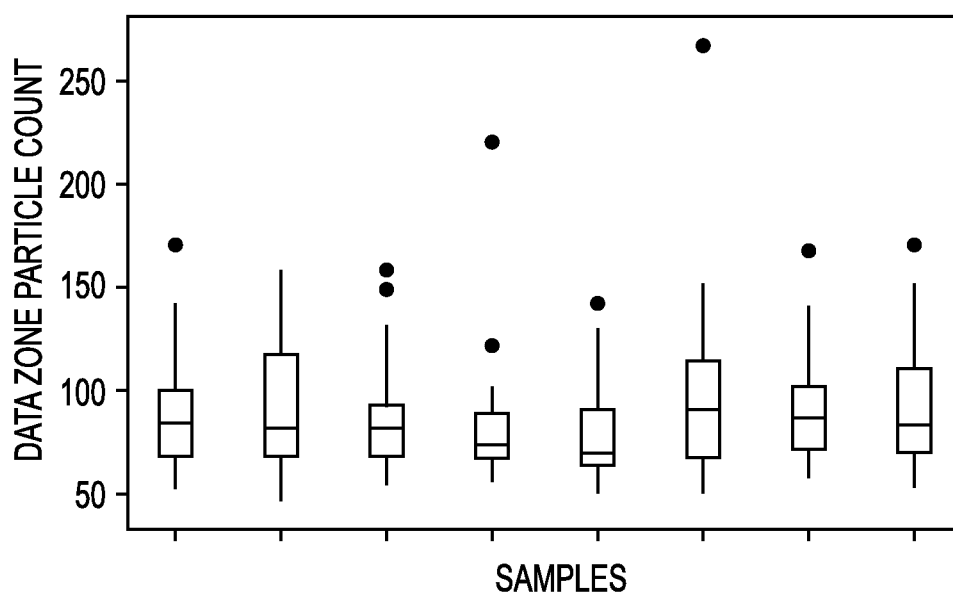
SPUTTERING STATION 1									
MgO-TiO									
STEP 1			STEP 2				STEP 3		
Ar	N ₂	DUR	Ar	N ₂	POWER	DUR	Ar	N ₂	DUR
24 SCCM	16 SCCM	2 SEC	24 SCCM	16 SCCM	0.5 kW	16 SEC	5 SCCM	0 SCCM	1 SEC

FIG 7B

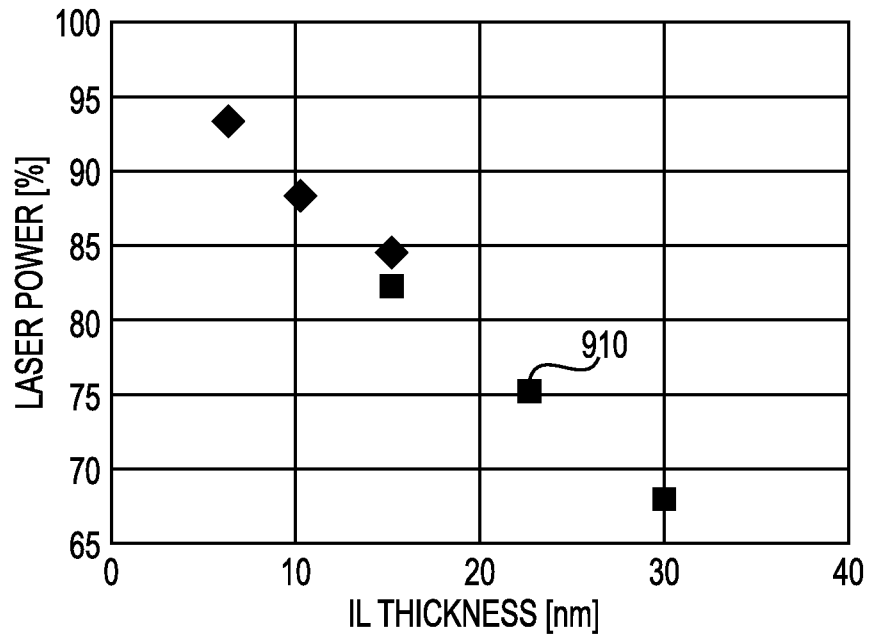
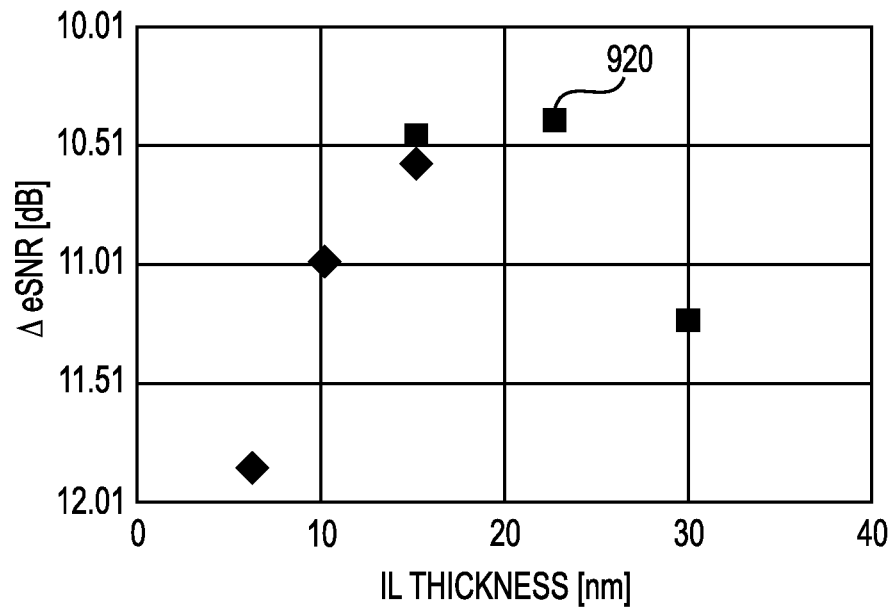
SPUTTERING STATION 2									
MgO-TiO									
STEP 1			STEP 2				STEP 3		
Ar	N ₂	DUR	Ar	N ₂	POWER	DUR	Ar	N ₂	DUR
150 SCCM	10 SCCM	1 SEC	150 SCCM	10 SCCM	0.6 kW	8.5 SEC	5 SCCM	0 SCCM	1 SEC

FIG 7C

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**FIG 8A****FIG 8B**

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**FIG 9A****FIG 9B**