

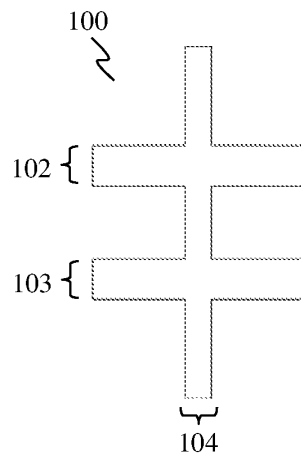


FIG. 1A

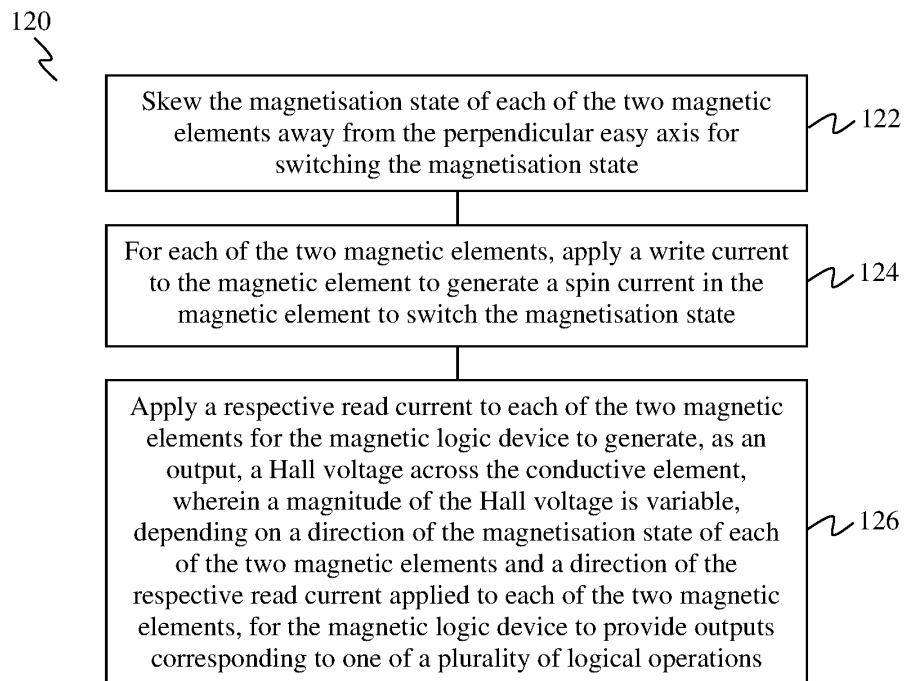


FIG. 1B

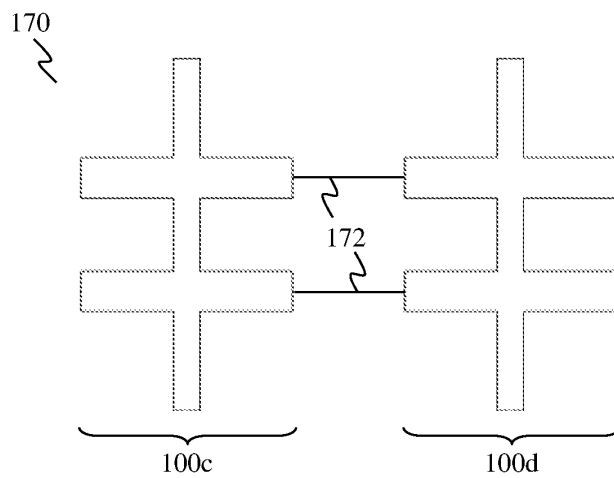


FIG. 1C

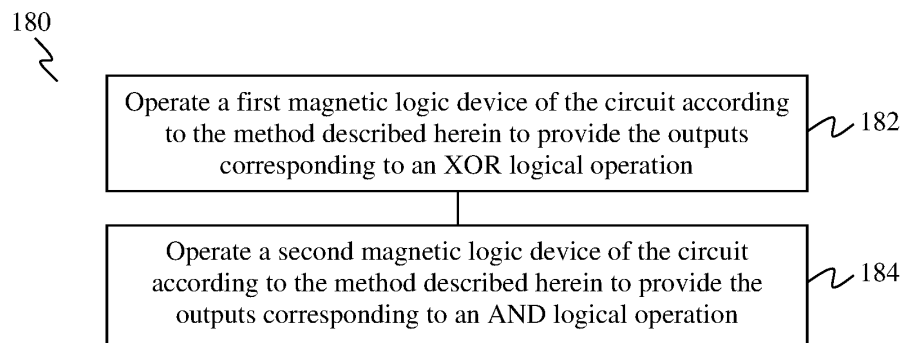


FIG. 1D

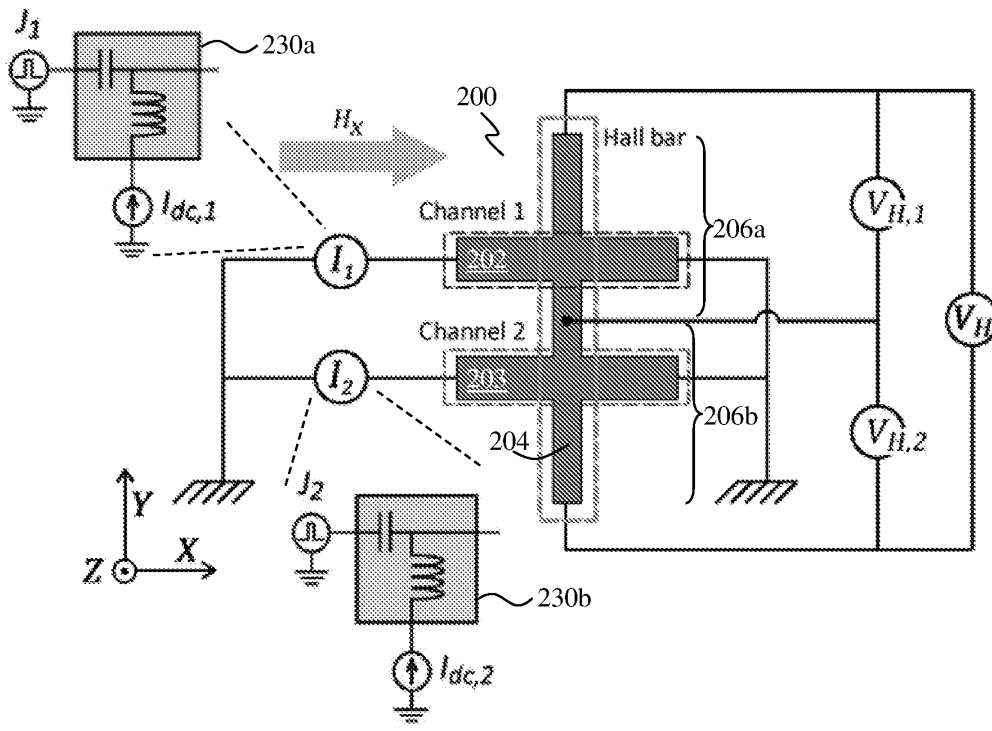


FIG. 2A

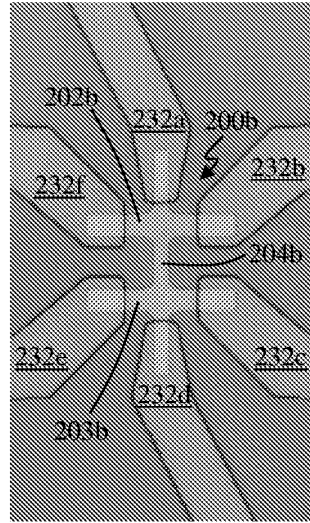


FIG. 2B

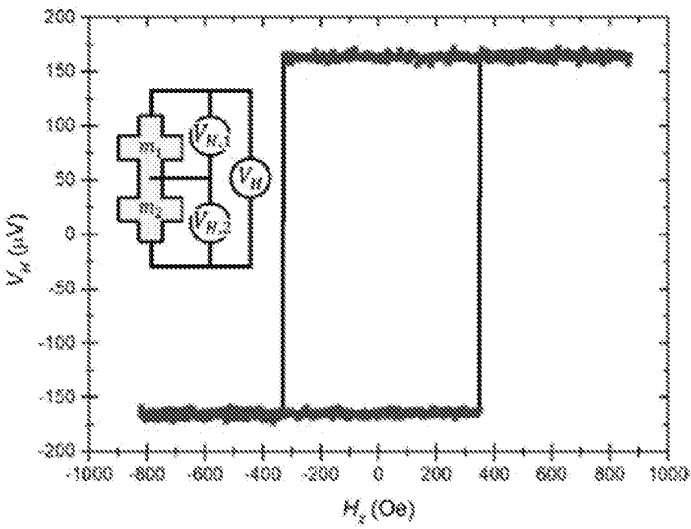


FIG. 2C

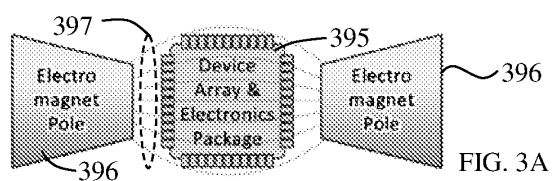


FIG. 3A

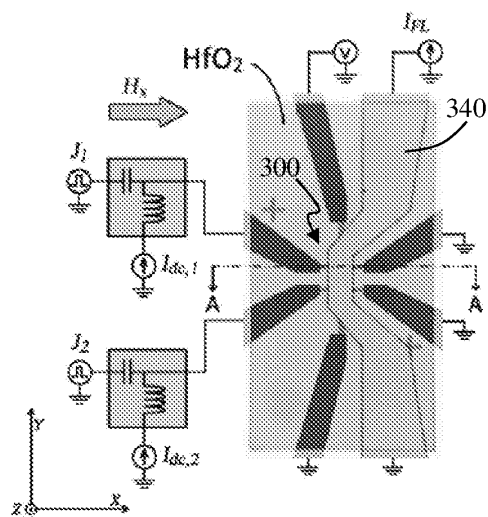


FIG. 3B

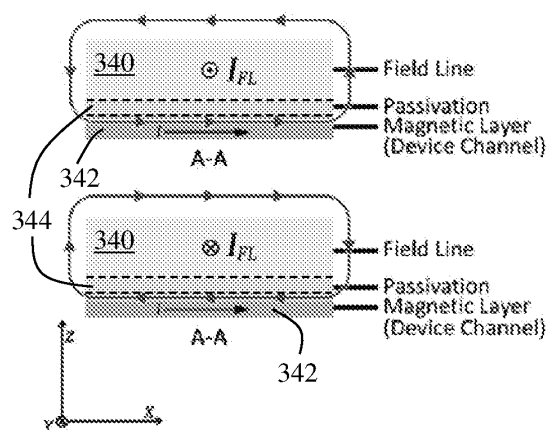


FIG. 3C

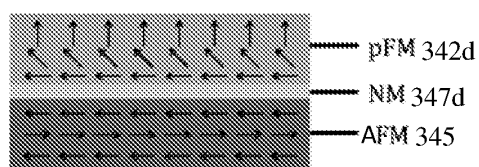


FIG. 3D

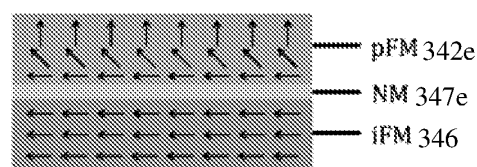


FIG. 3E

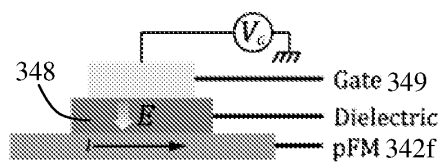


FIG. 3F

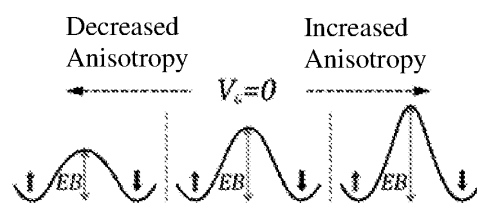


FIG. 3G

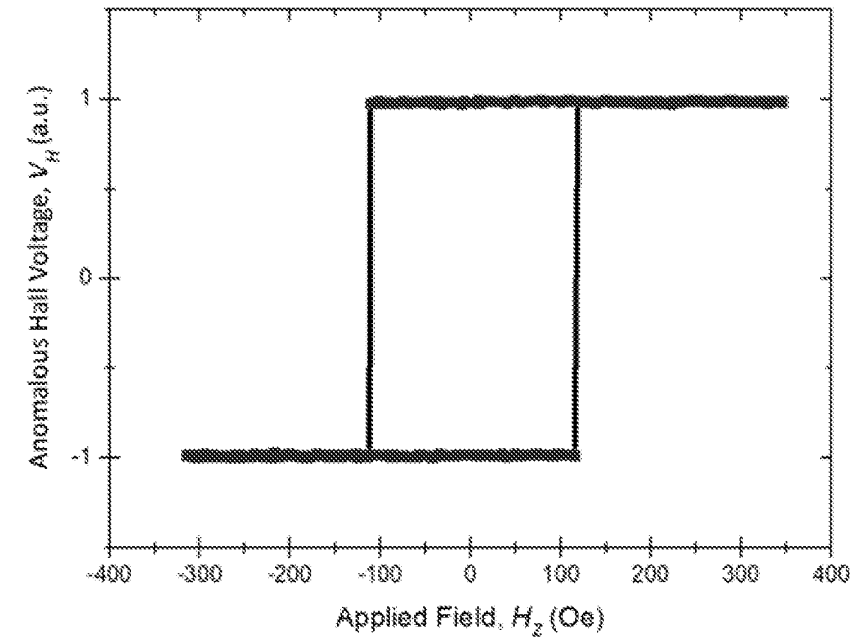


FIG. 4A

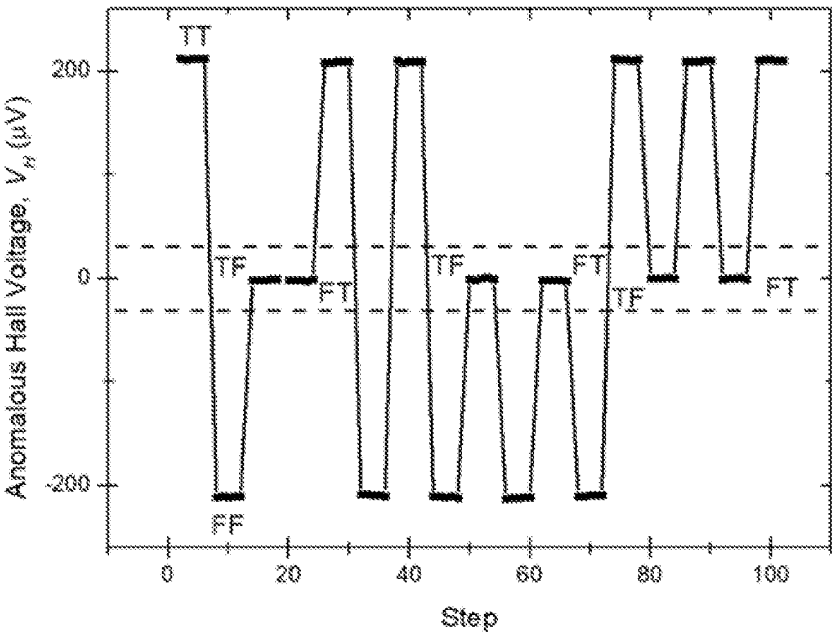


FIG. 4B

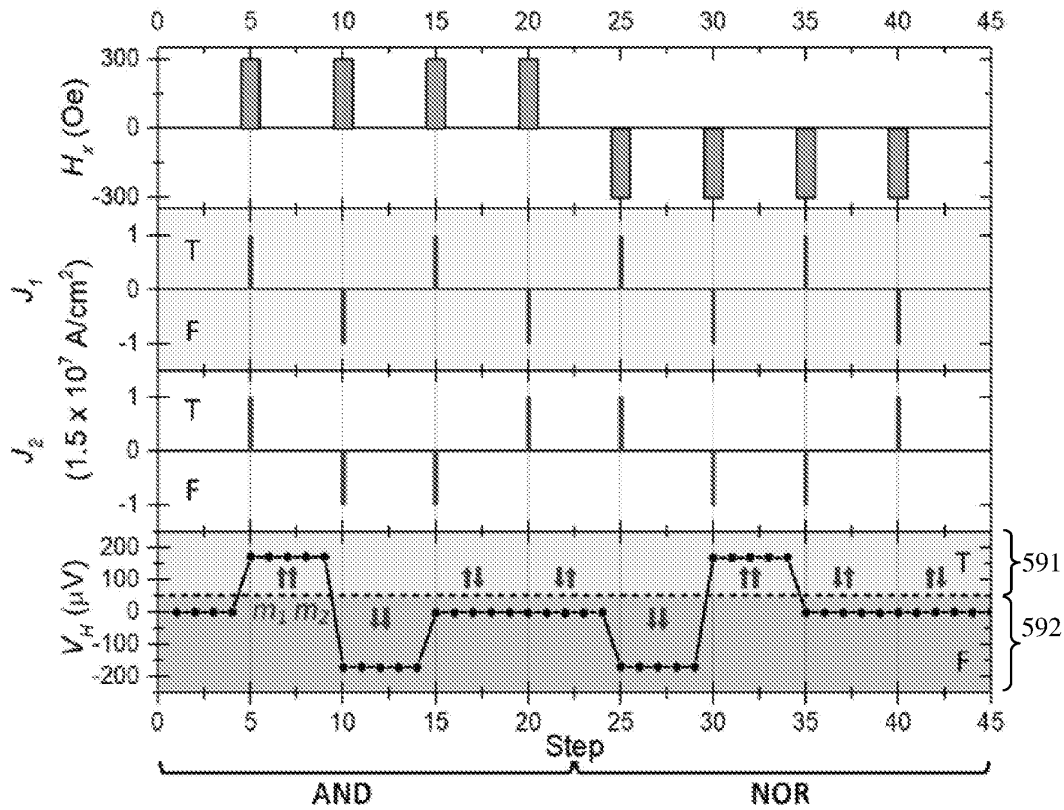


FIG. 5

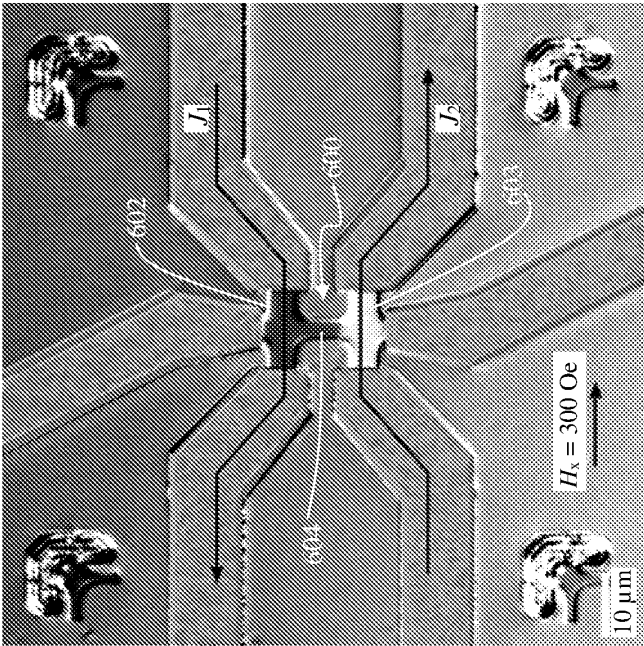


FIG. 6B

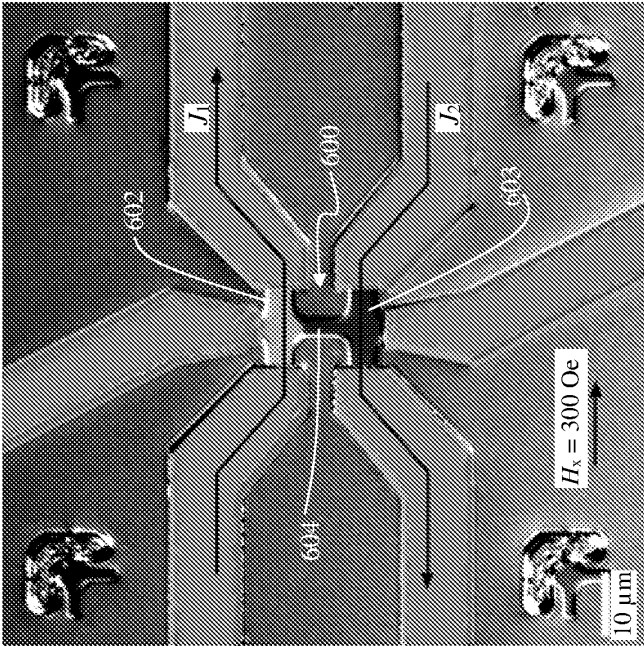


FIG. 6A

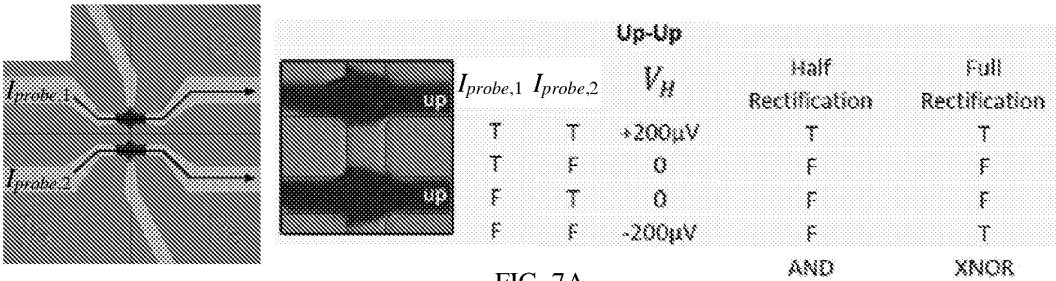


FIG. 7A

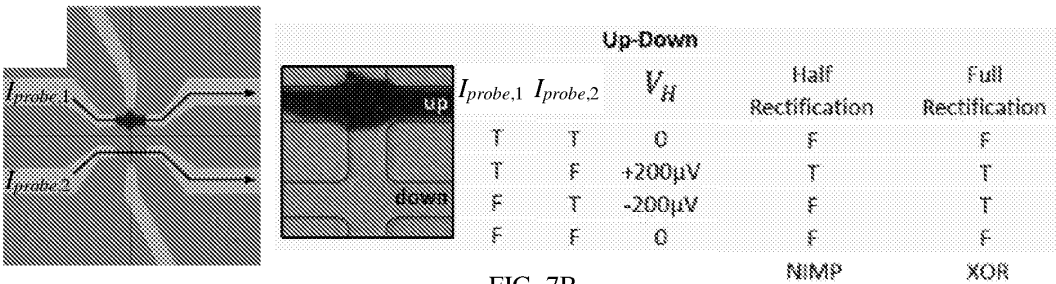


FIG. 7B

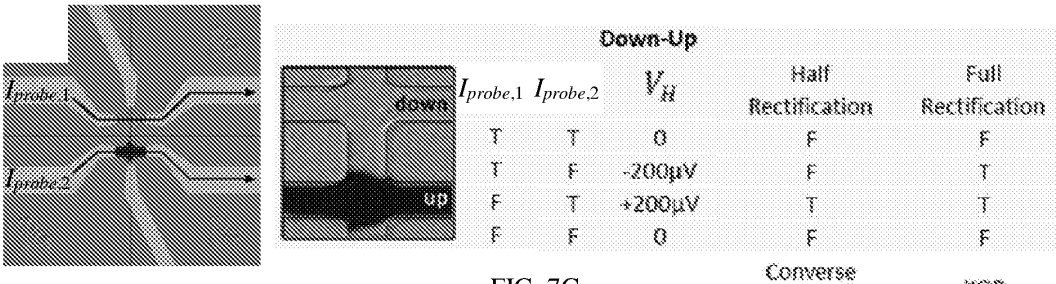


FIG. 7C

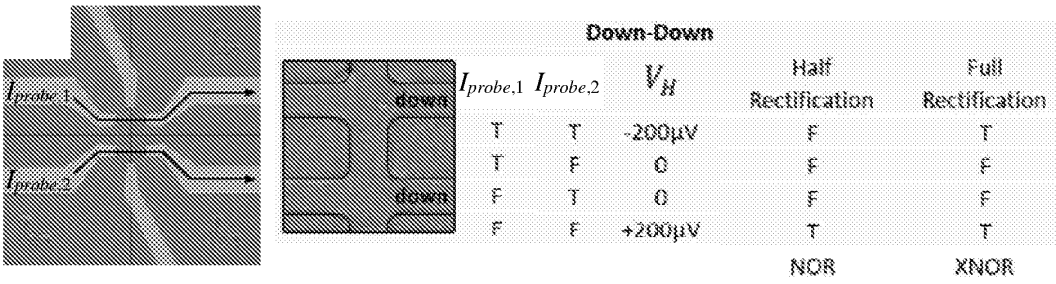
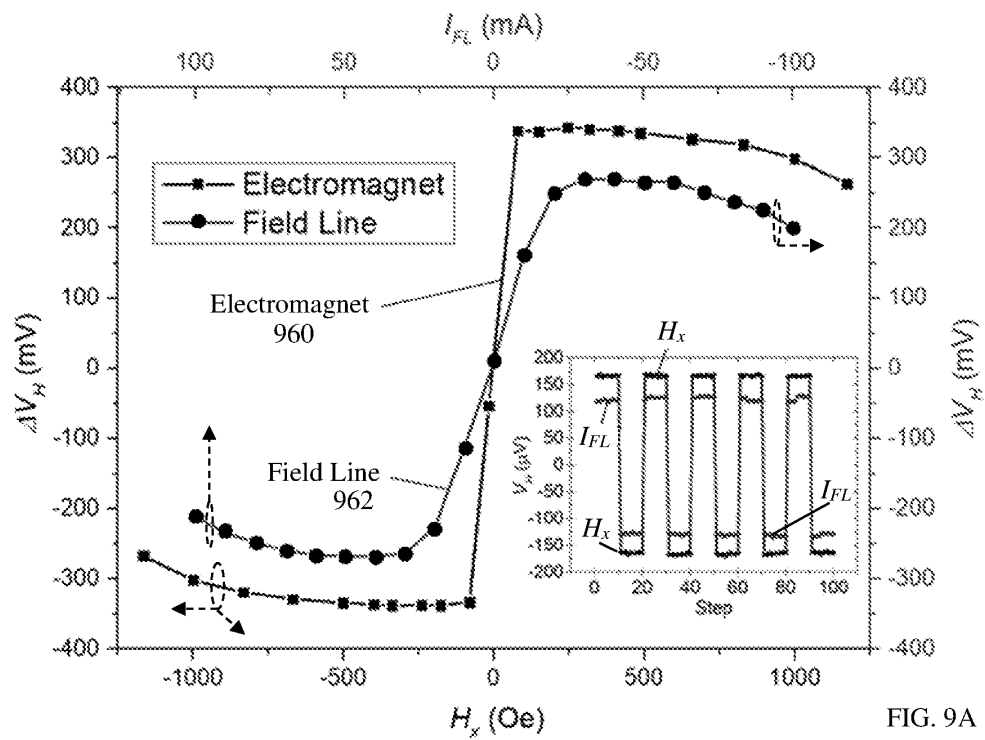
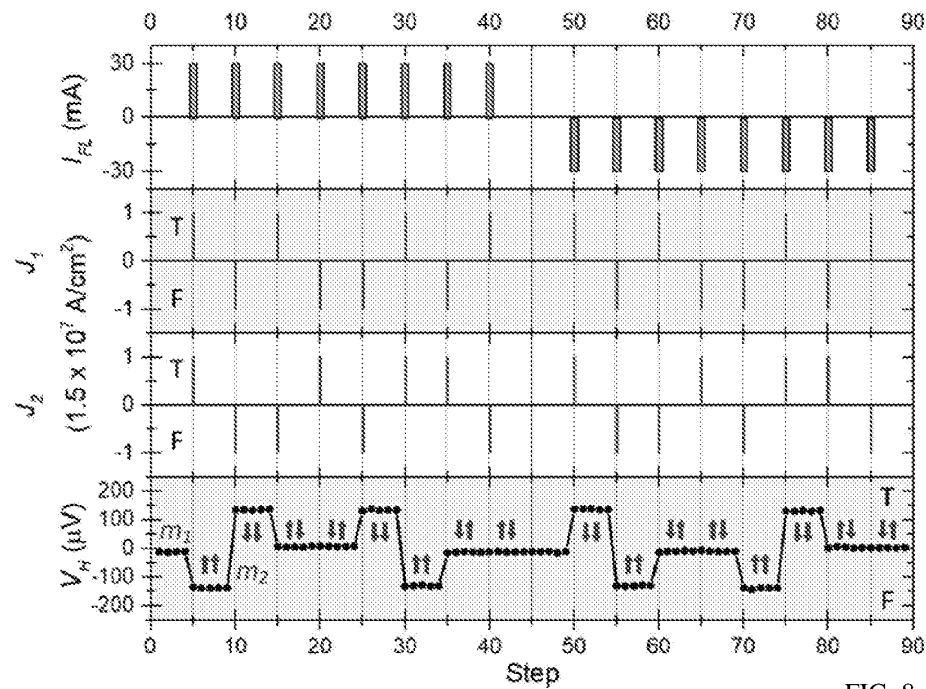


FIG. 7D



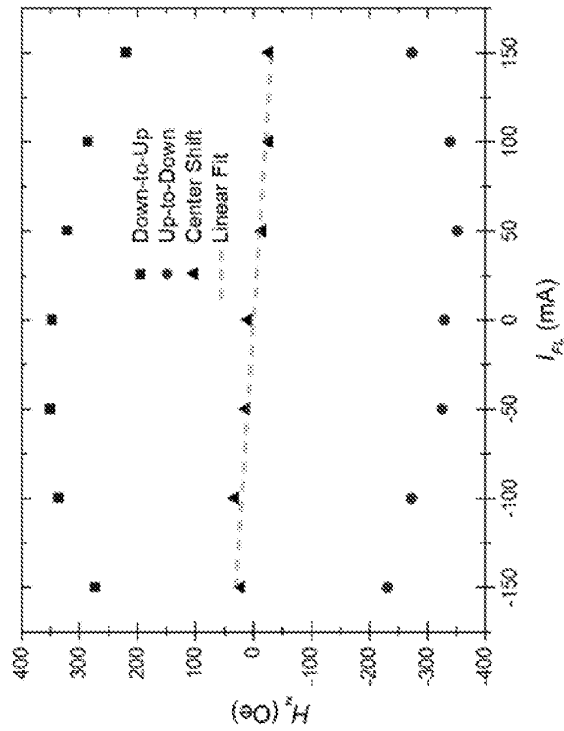


FIG. 9C

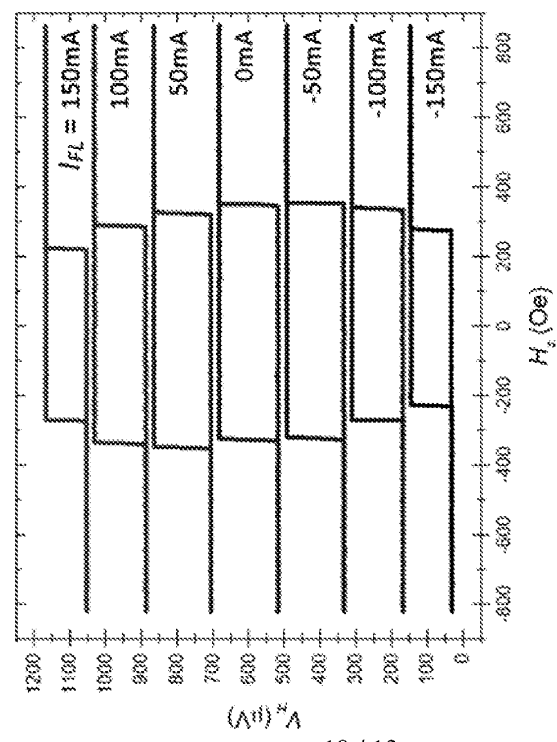


FIG. 9B

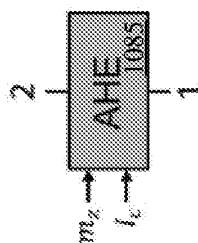
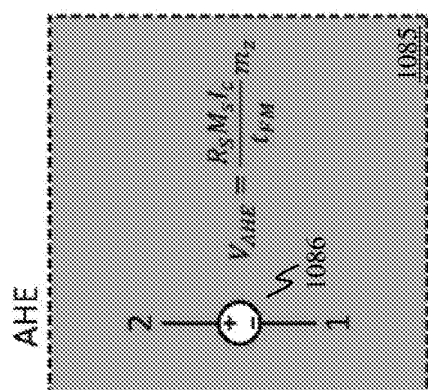


FIG. 10C

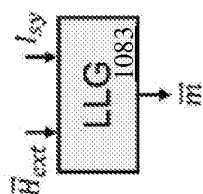
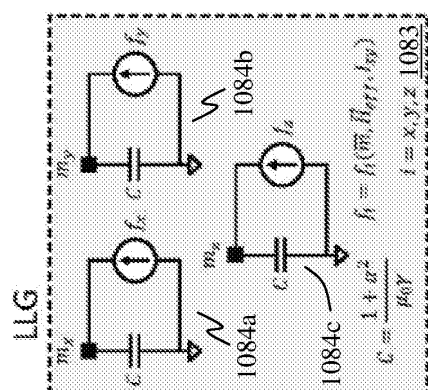


FIG. 10B

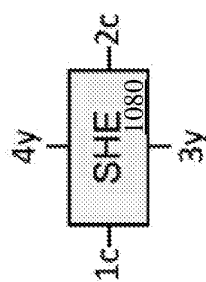
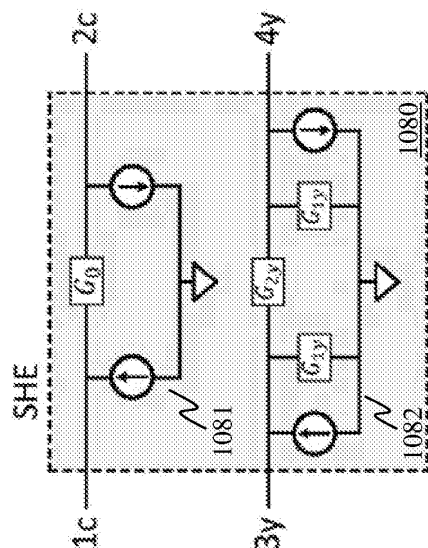


FIG. 10A

Modular Representation

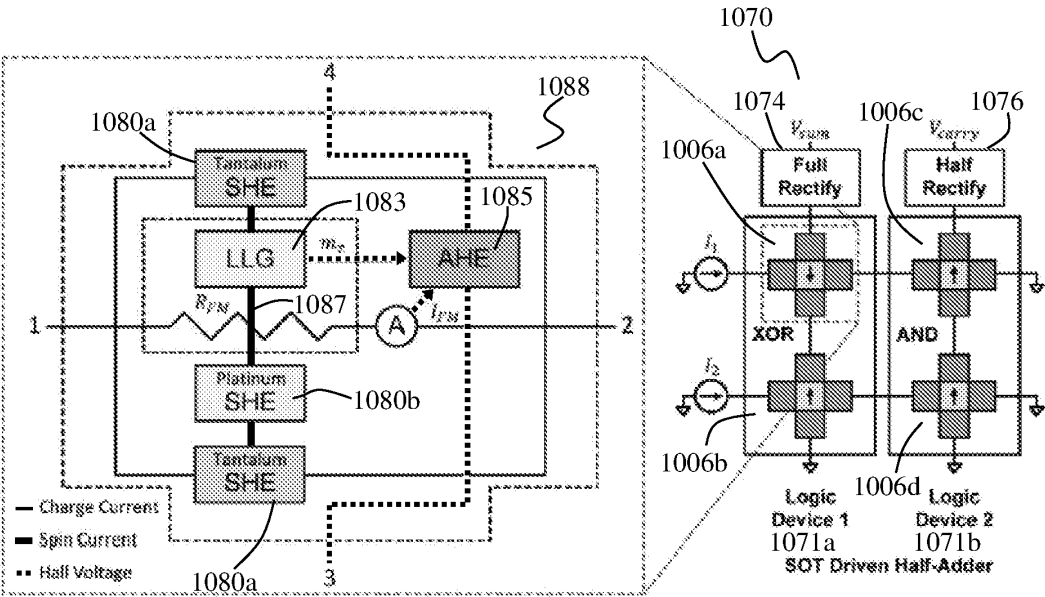


FIG. 10D

FIG. 10E

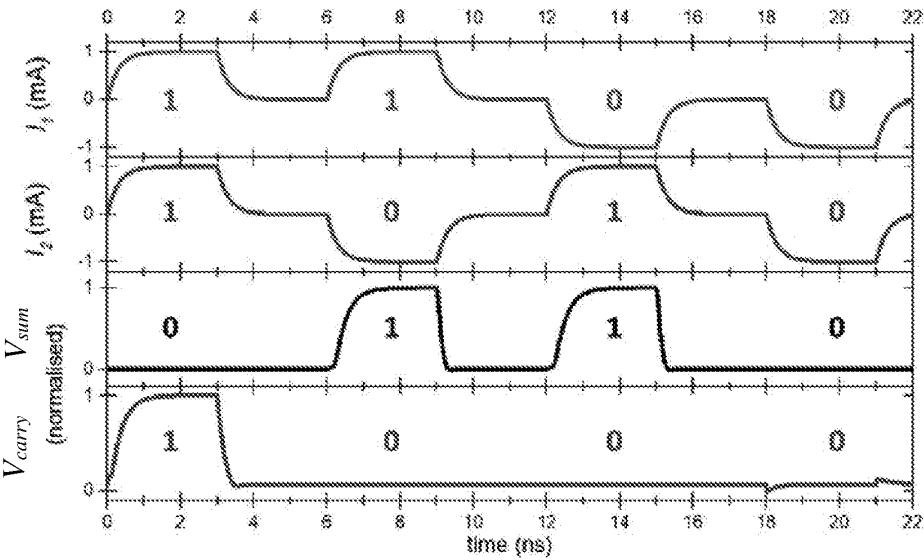


FIG. 10F

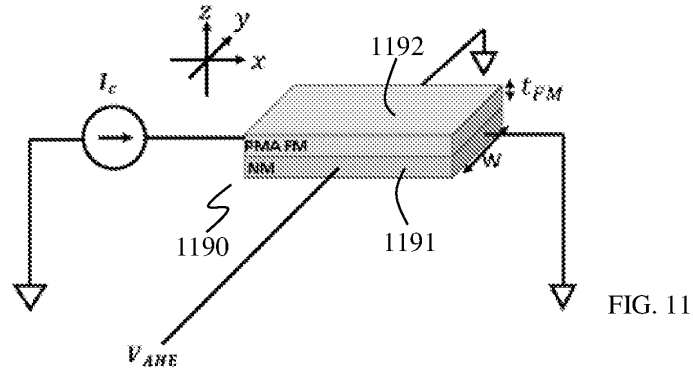


FIG. 11

Module	Quantity	Value
Pt SHE	Spin Hall Angle, θ_{Pt}	0.10 ± 0.01
	Spin Diffusion Length, λ_{Pt}	7.3 nm
	Conductivity, σ_{Pt}	$2.08 \times 10^6 \Omega^{-1} \text{ m}^{-1}$
	Thickness, t_{Pt}	5.0 nm
	Area, A	$5 \mu\text{m} \times 3 \mu\text{m}$
Ta SHE	Spin Hall Angle, θ_{Ta}	-0.071 ± 0.006
	Spin Diffusion Length, λ_{Ta}	1.9 nm
	Conductivity, σ_{Ta}	$3.45 \times 10^5 \Omega^{-1} \text{ m}^{-1}$
	Thickness, t_{Ta}	5.0 nm
	Area, A	$5 \mu\text{m} \times 3 \mu\text{m}$
FM LLG	Saturation Magnetization, M_s	$6.75 \times 10^5 \text{ A m}^{-1}$
	Anisotropy Field, $\mu_0 H_K$	1 T
	Volume, V	$5 \mu\text{m} \times 3 \mu\text{m} \times 4.2 \text{ nm}$
	Gilbert Damping, α	0.02
Resistance of FM Layer	Resistivity of Cobalt, ρ_{Co}	$3.0 \times 10^{-6} \Omega \text{ m}$
	Resistivity of Platinum, ρ_{Pt}	$4.8 \times 10^{-7} \Omega \text{ m}$
	Length, l	$3.0 \mu\text{m}$
	Sheet cross-sectional Area, A	$5.0 \mu\text{m} \times 0.6 \text{ nm}$
	Effective Resistance, R_{FM}	159.7Ω
AHE	Saturation Magnetization, M_s	$6.75 \times 10^5 \text{ A m}^{-1}$
	AHE Coefficient, R_s	$1.48 \times 10^{-14} \Omega \text{ m}^2 \text{ A}$
	Thickness of FM layer, t_{FM}	4.2 nm

FIG. 12