

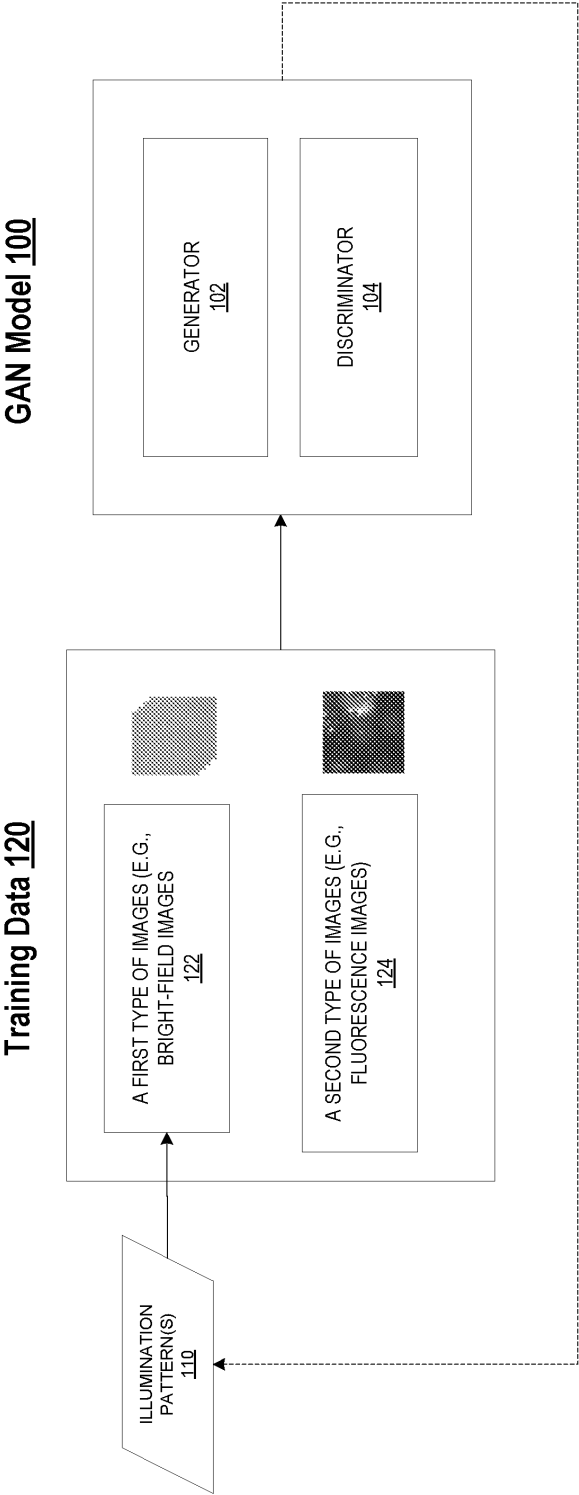


FIG. 1

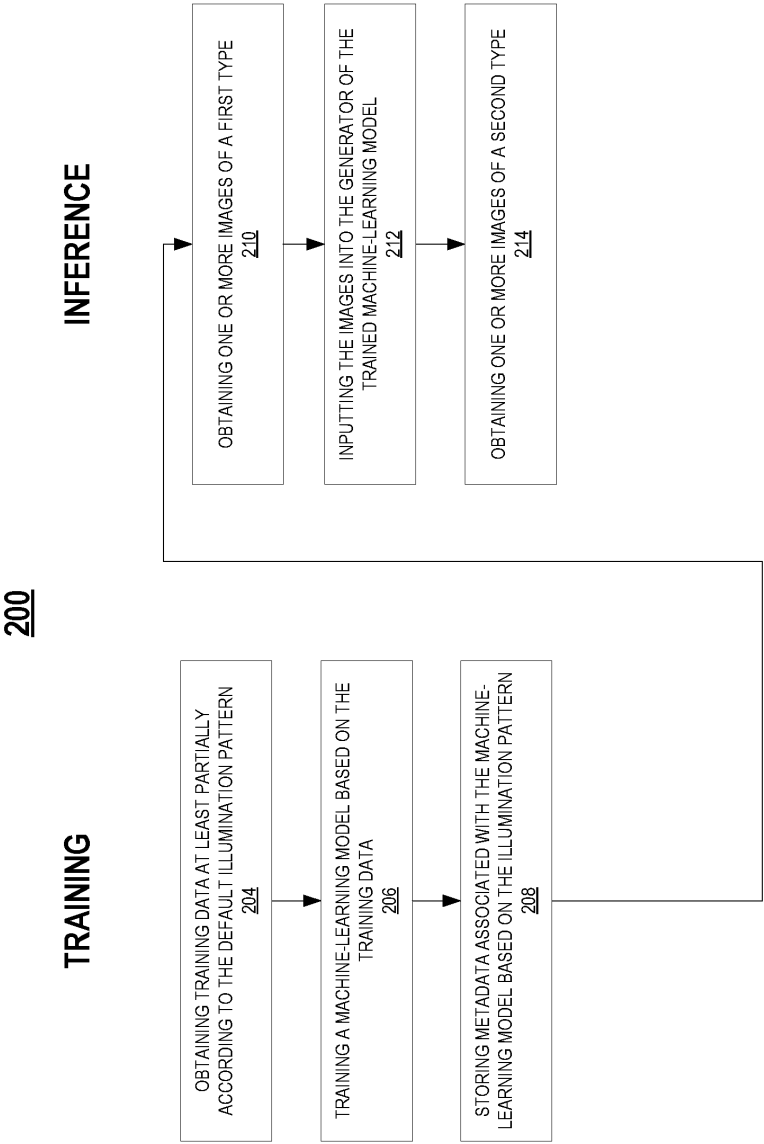


FIG. 2A (Illumination Pattern Not Updated During Training)

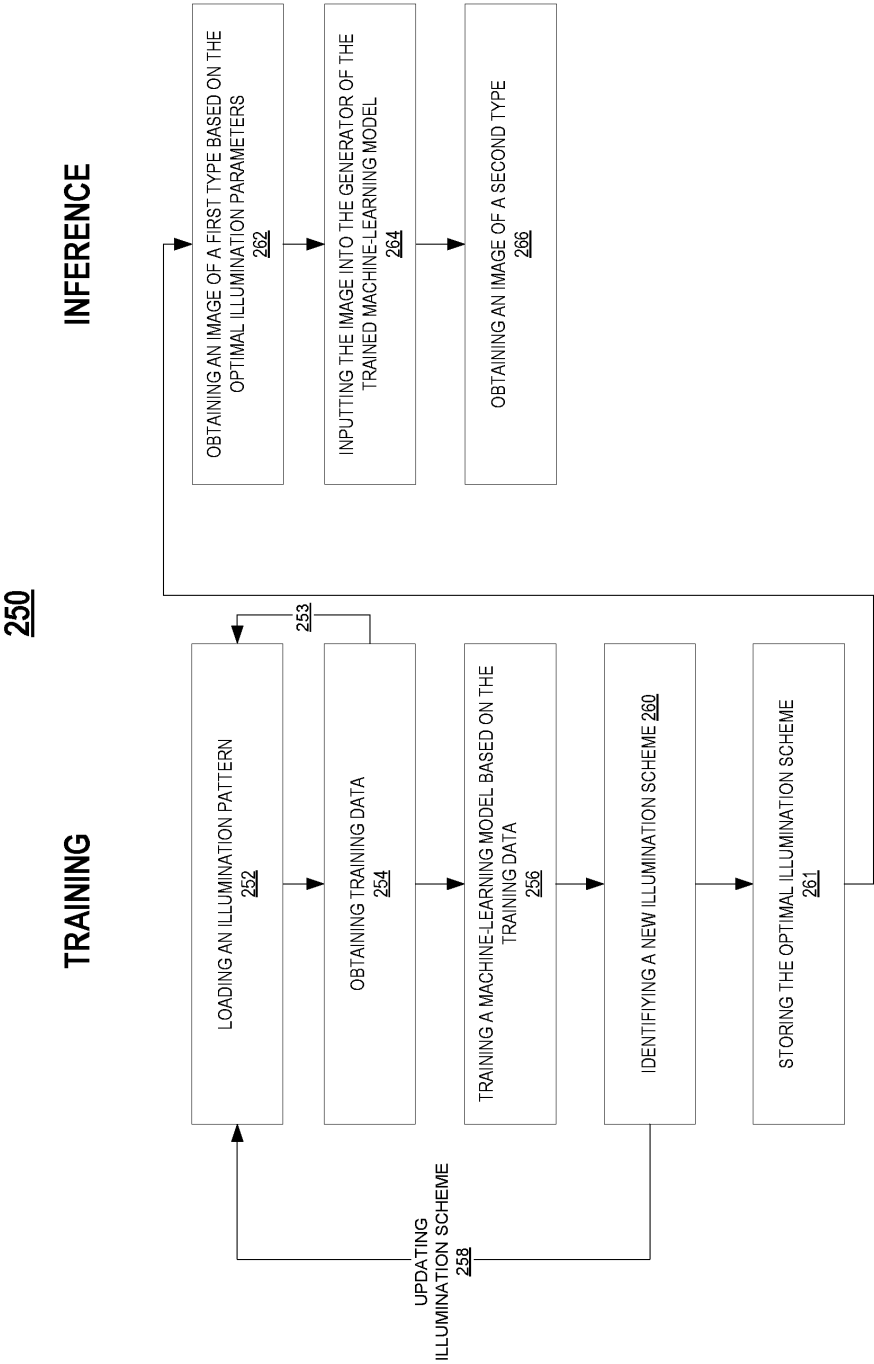


FIG. 2B (Illumination Pattern Updated During Training)

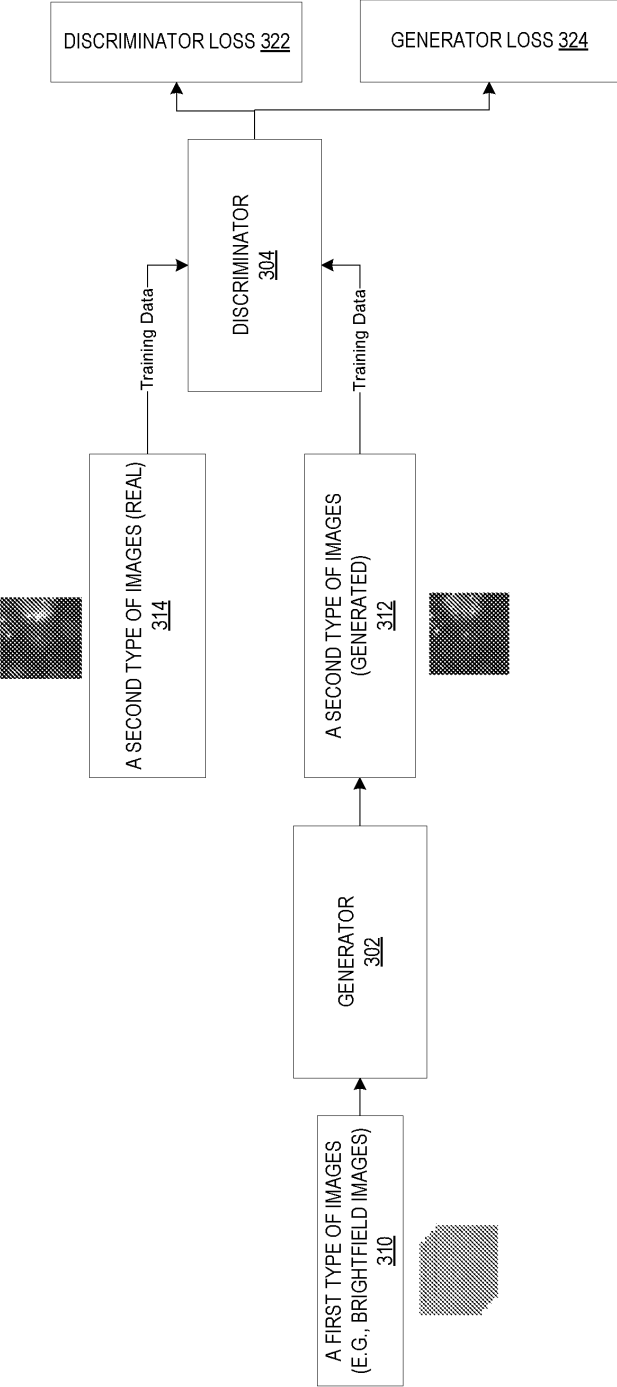


FIG. 3A

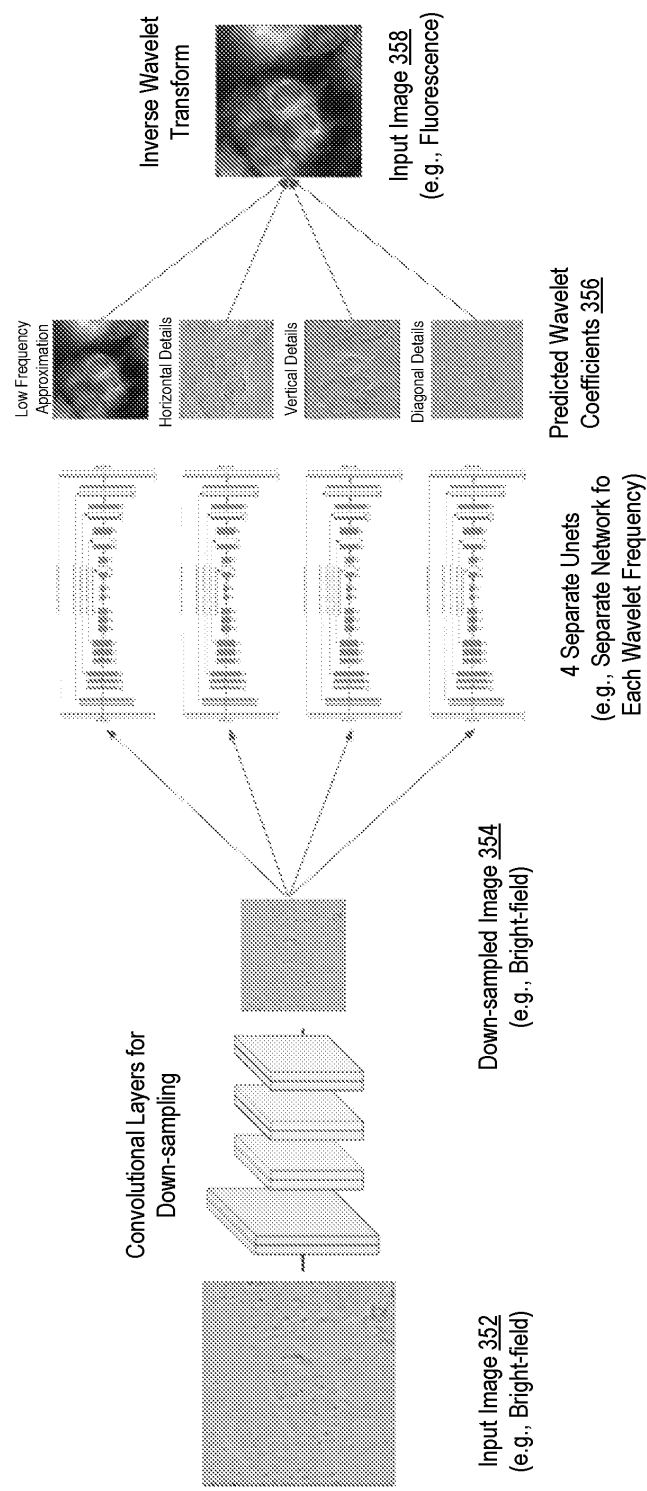


FIG. 3B

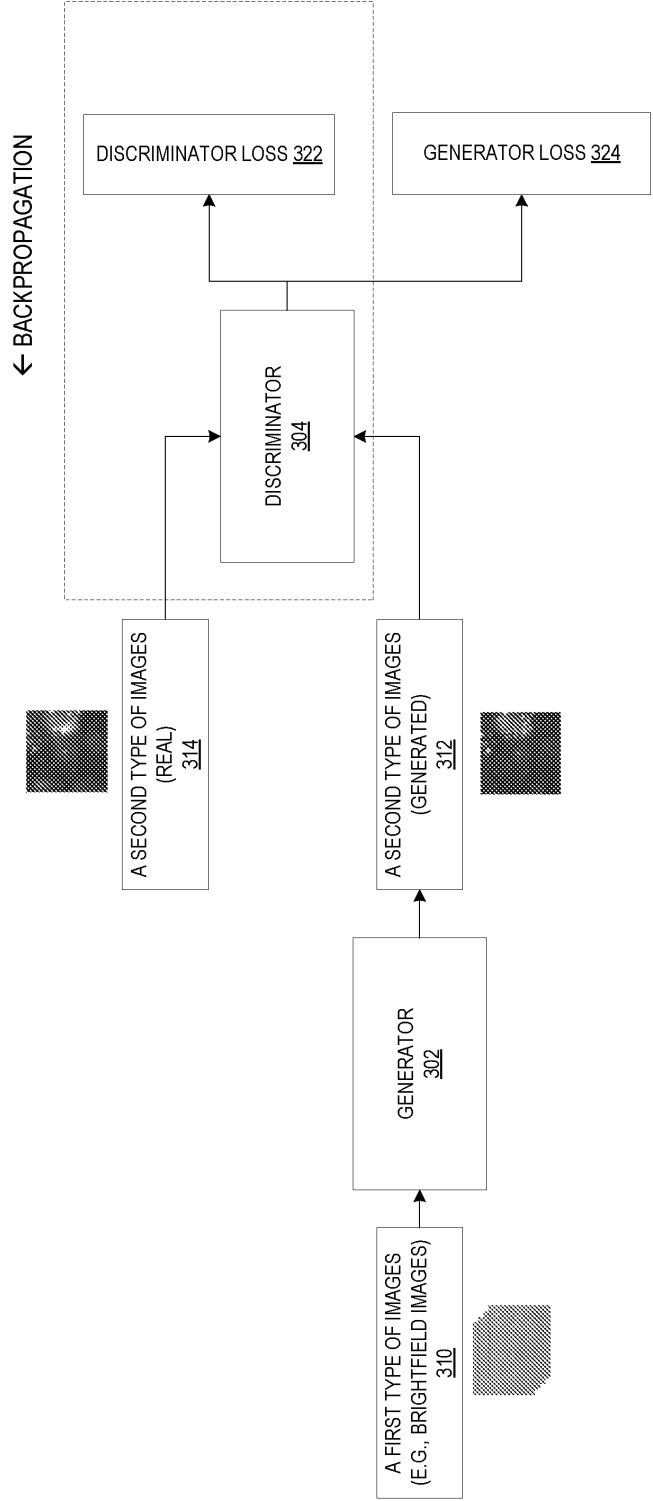


FIG. 3C

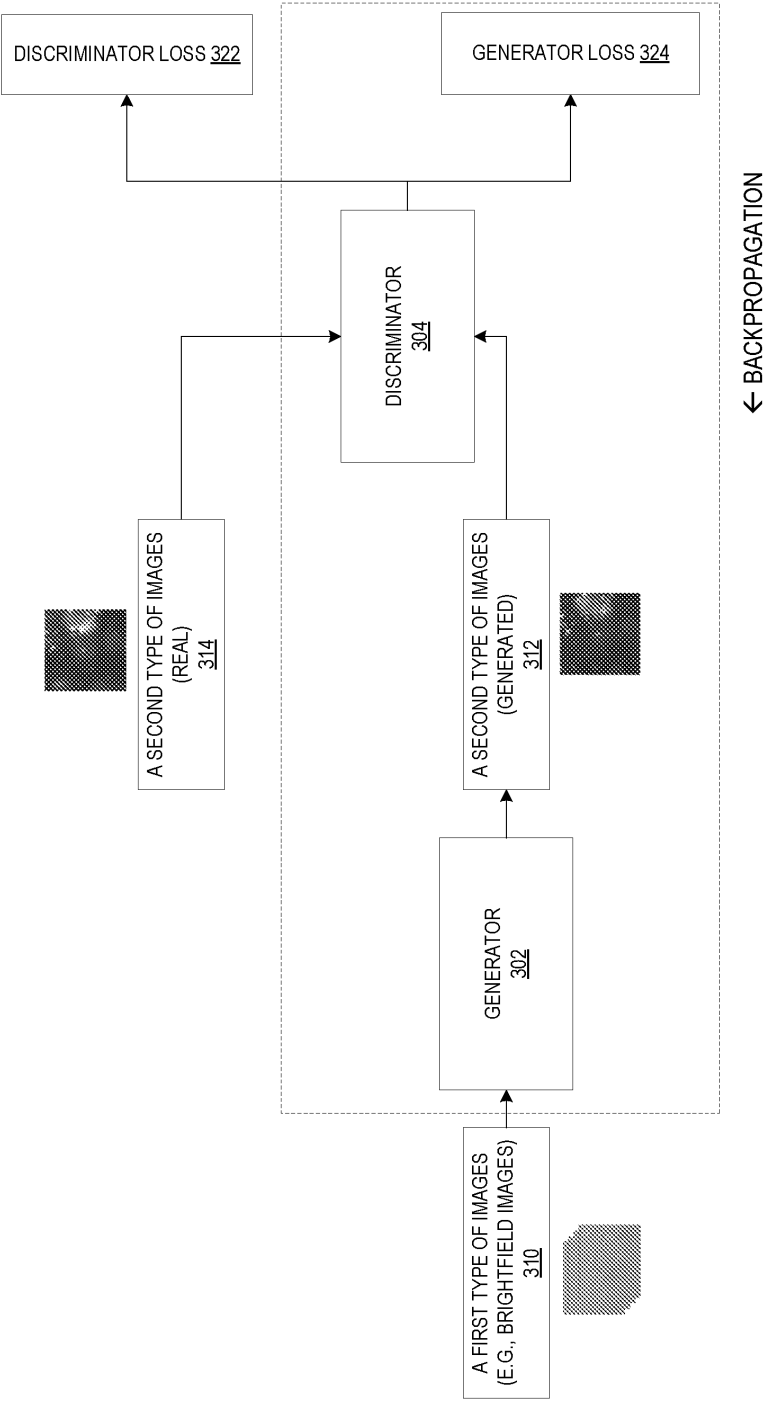


FIG. 3D

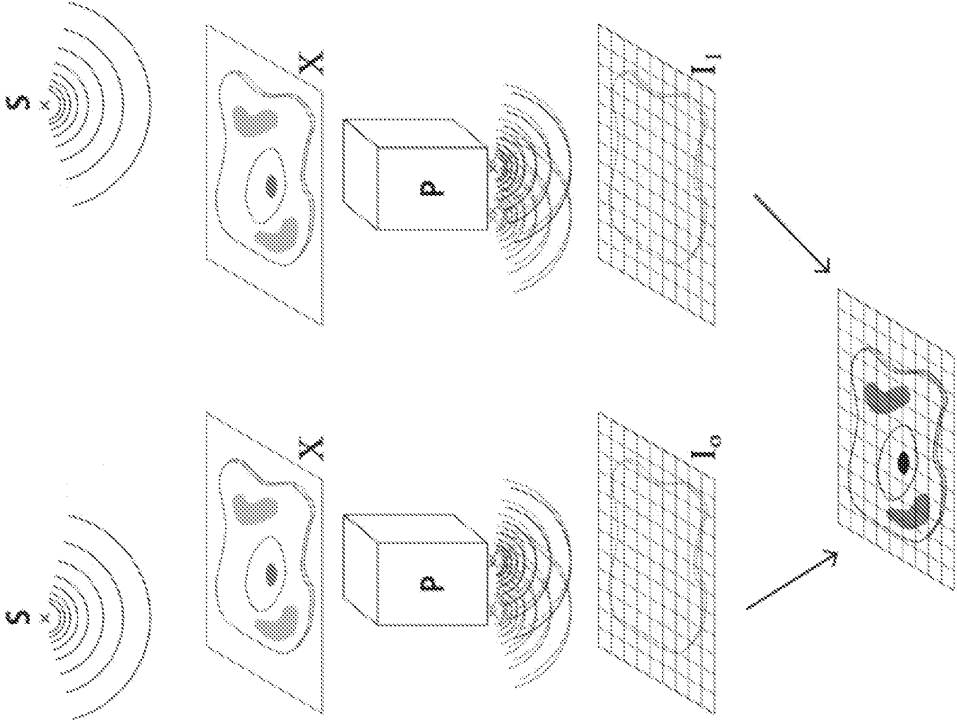
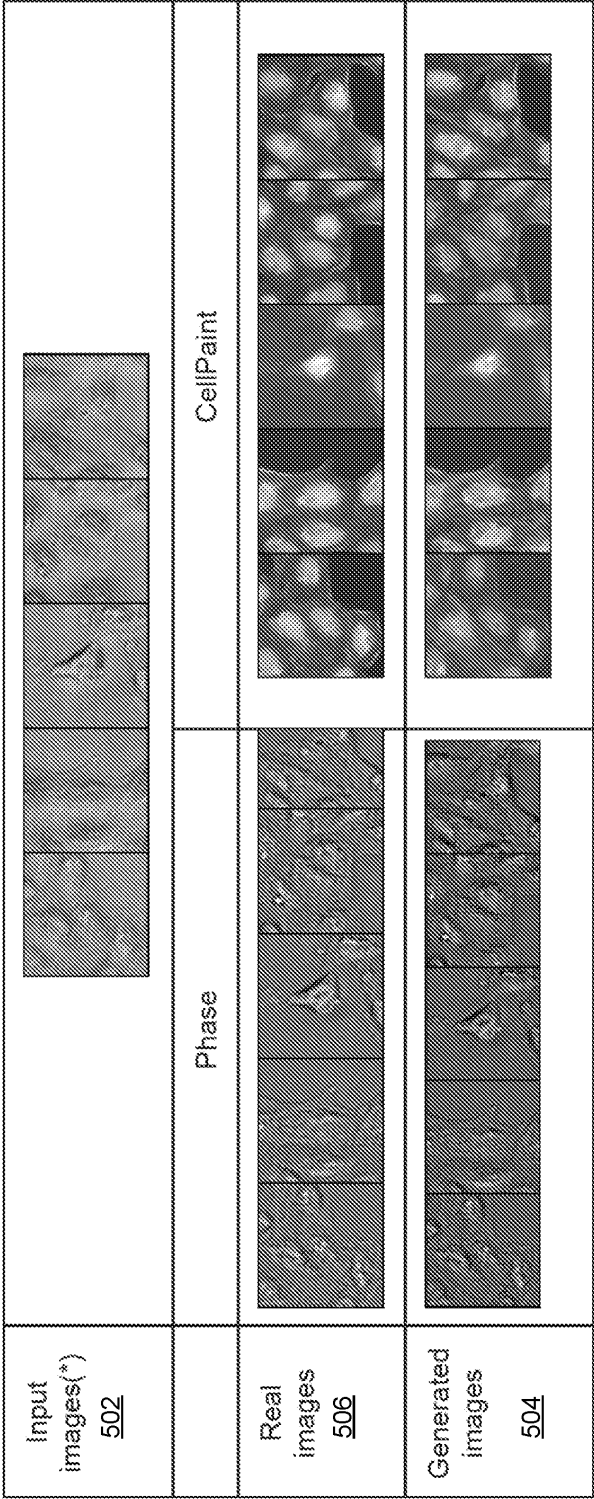


FIG. 4



(*) :composite of 4 different illuminations

FIG. 5

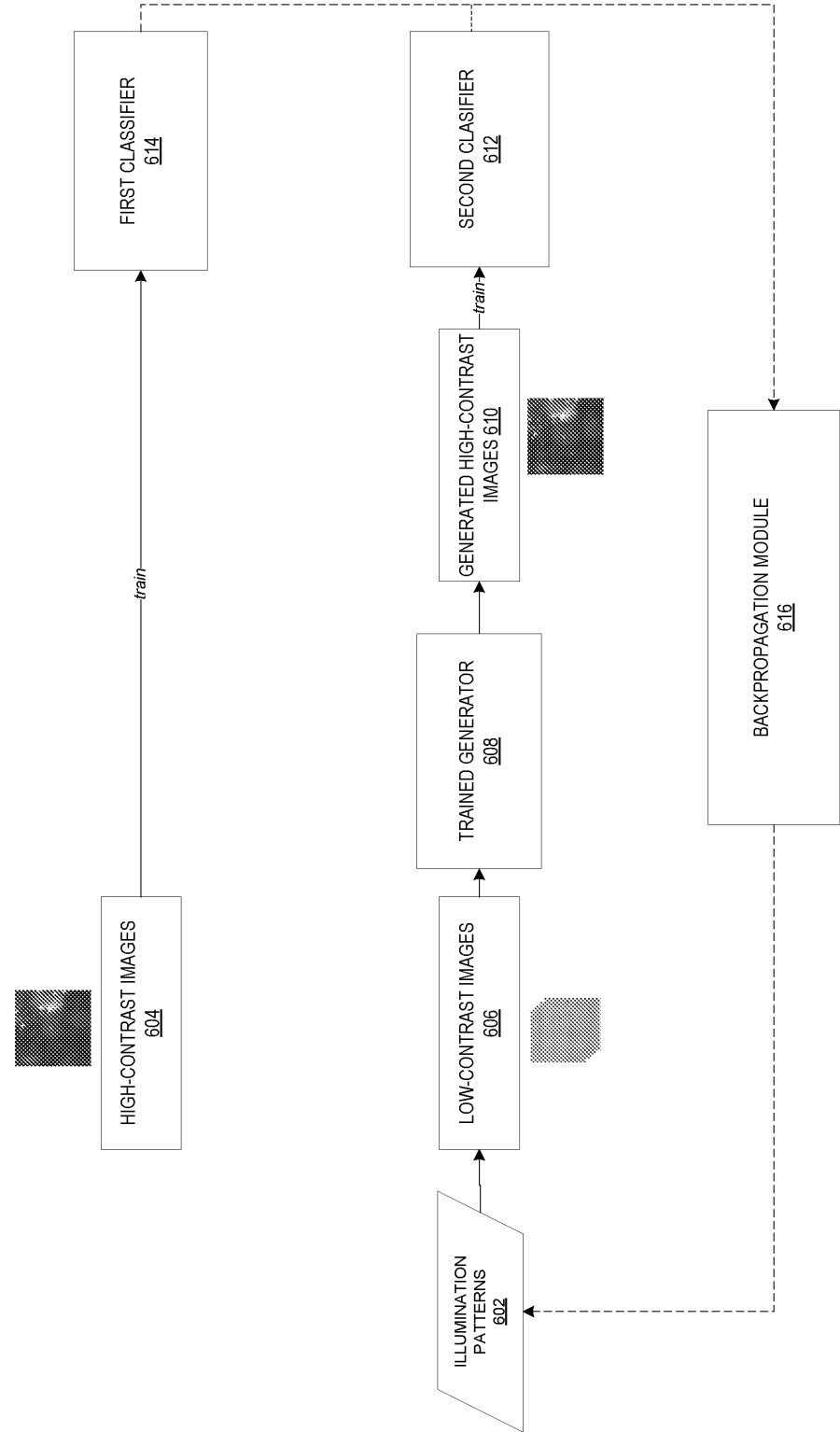


FIG. 6A

	Training on real data Validation on generated data	Training on generated data Validation on real data
Classification accuracy on validation data	~75%	~75%

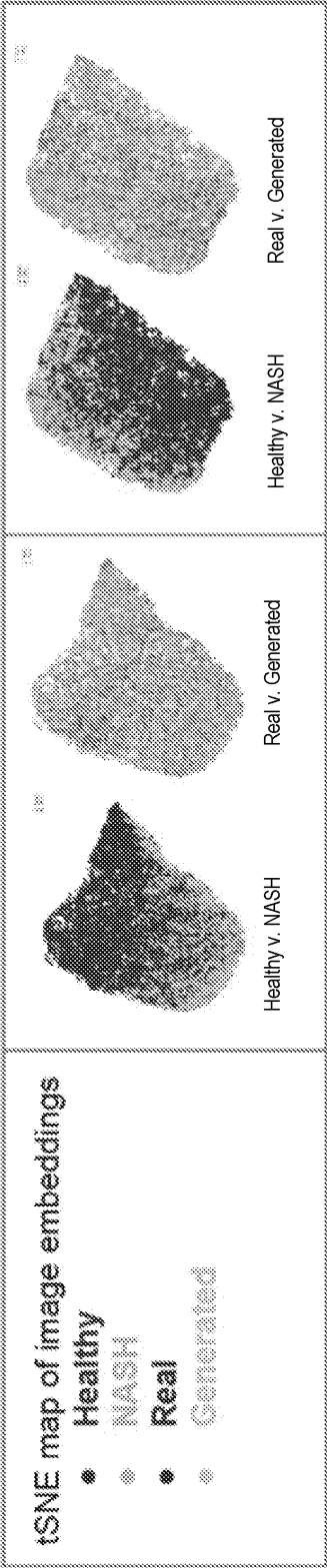


FIG. 6B

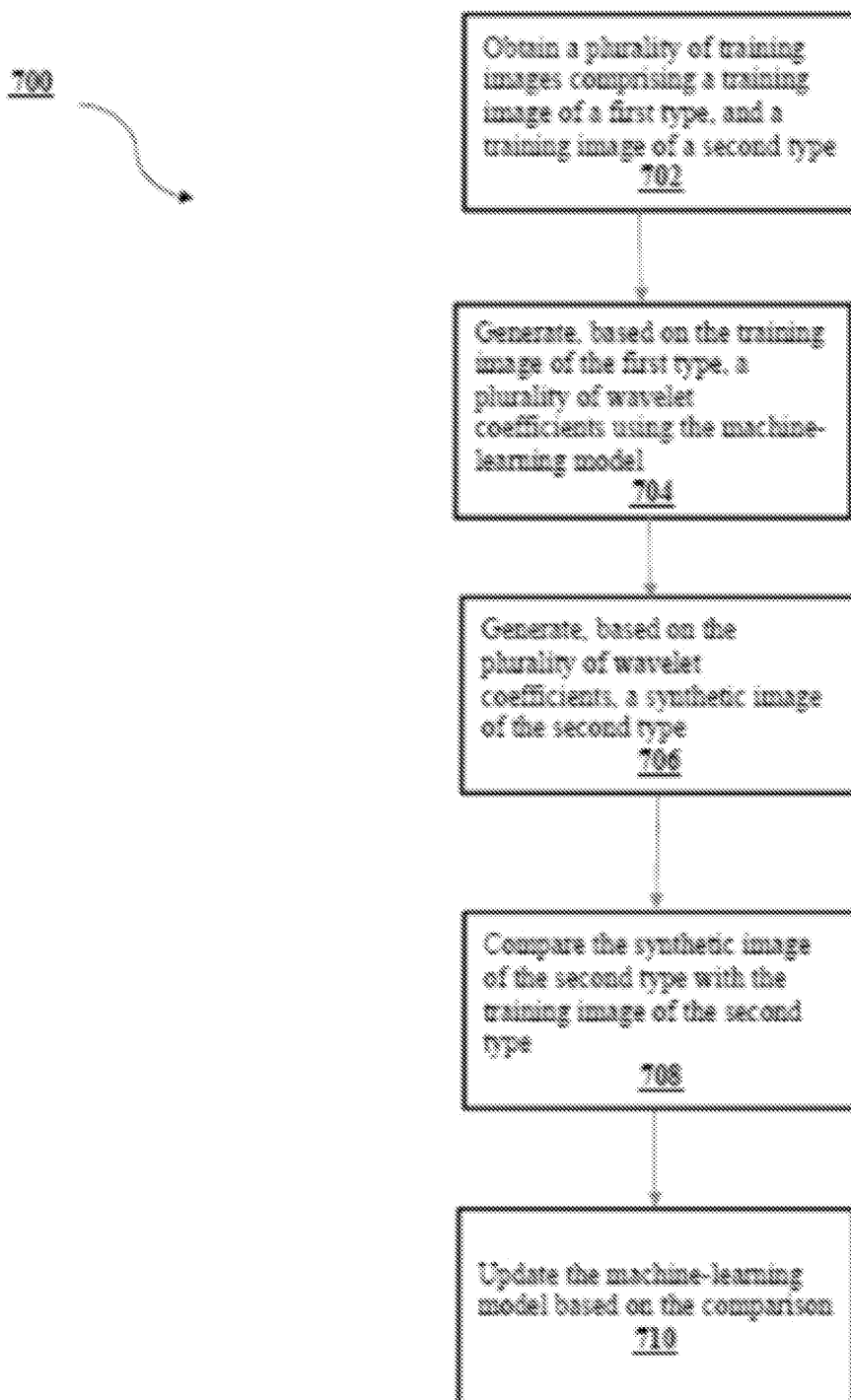


FIG. 7A

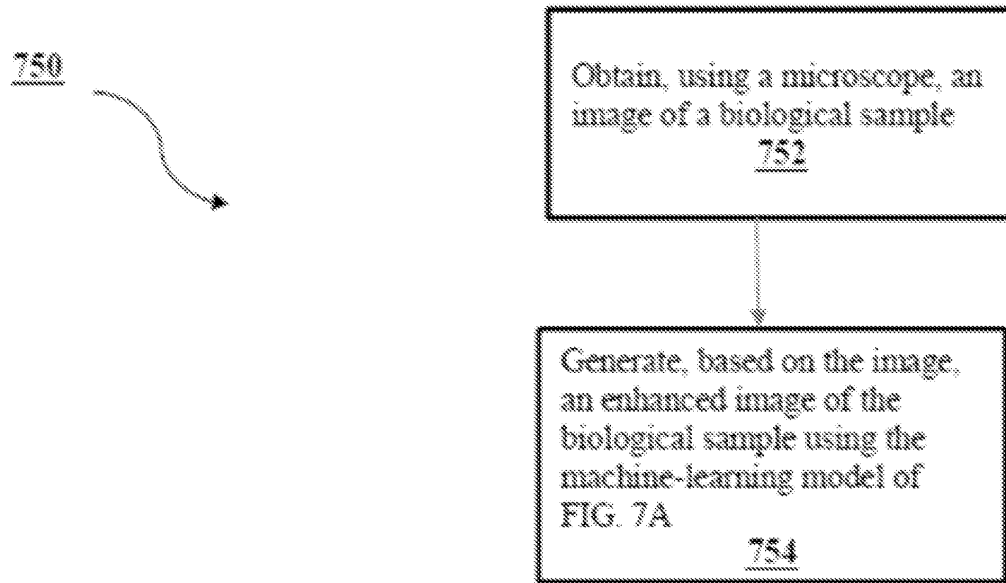


FIG. 7B

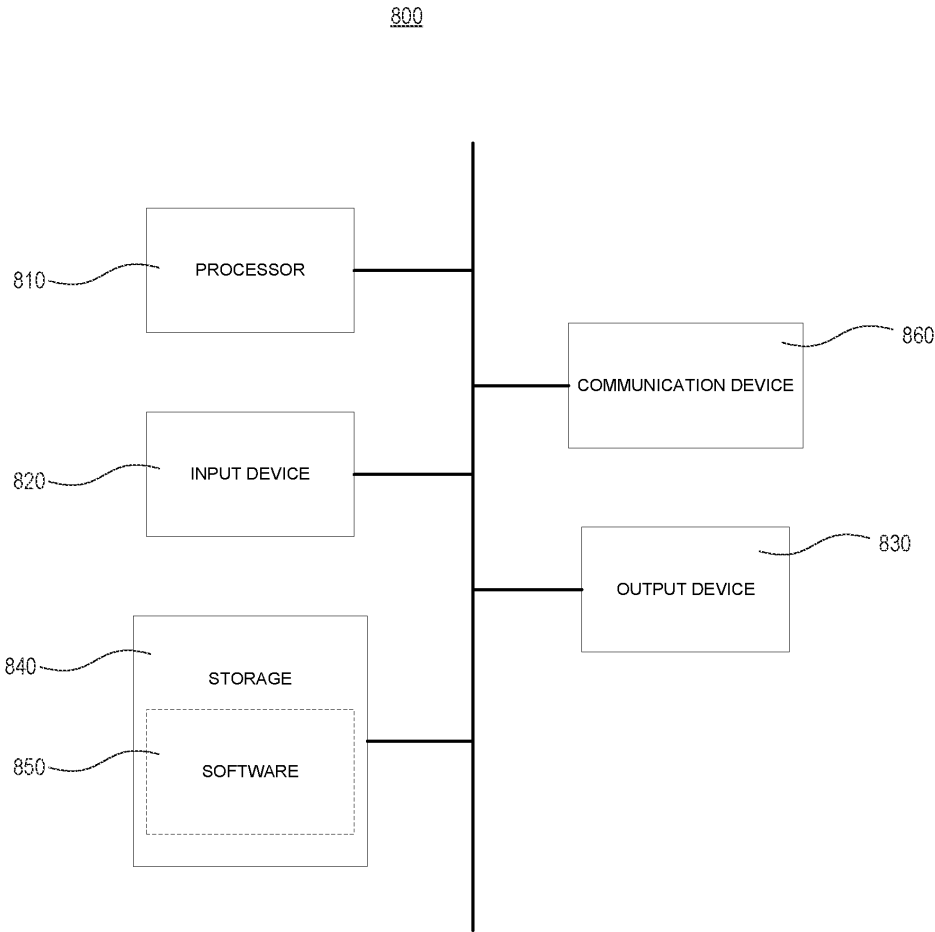


FIG. 8

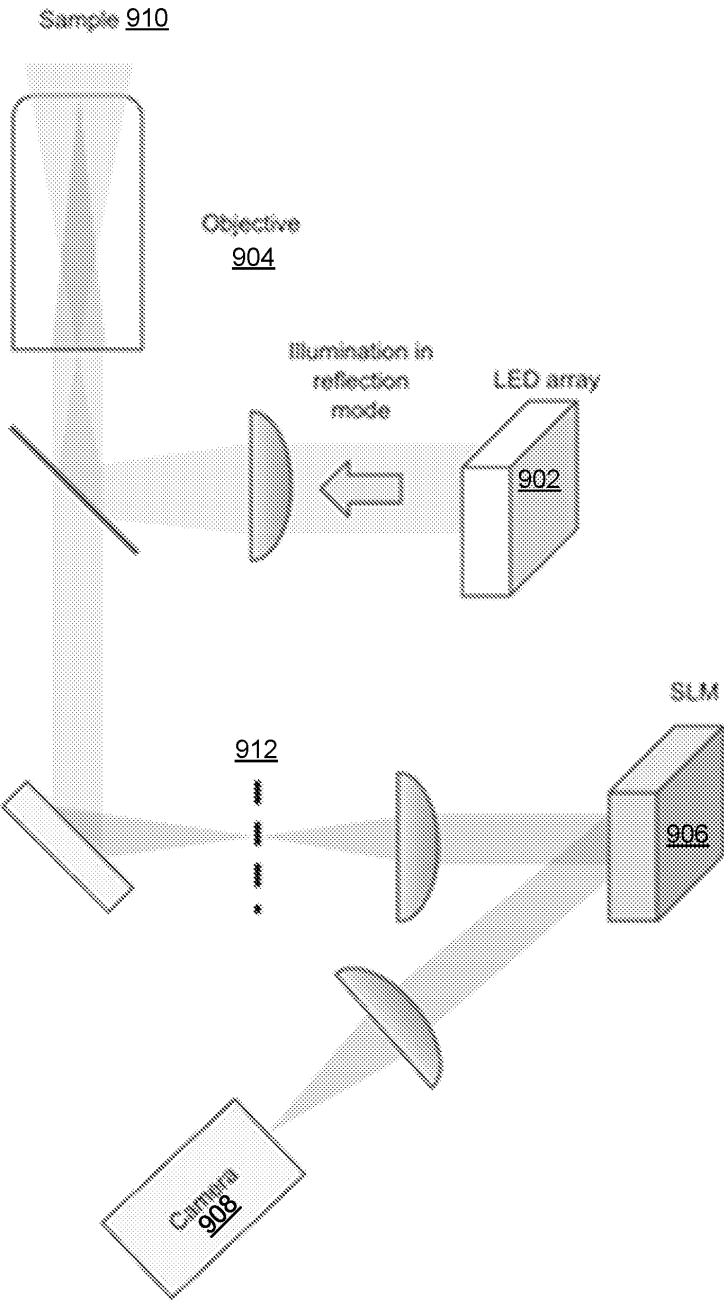


FIG. 9

1000

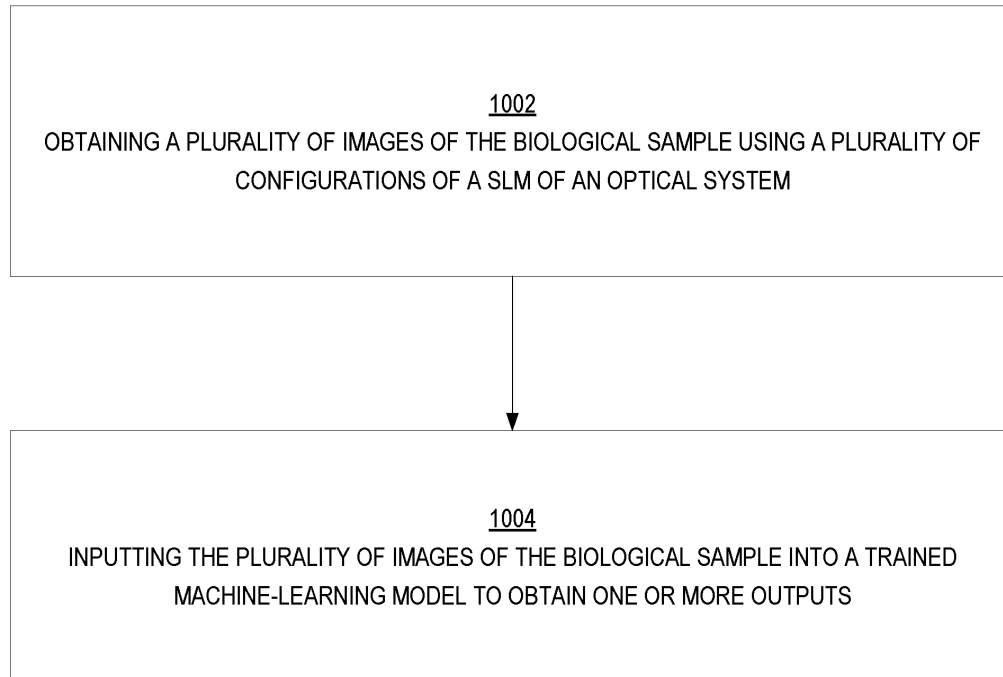
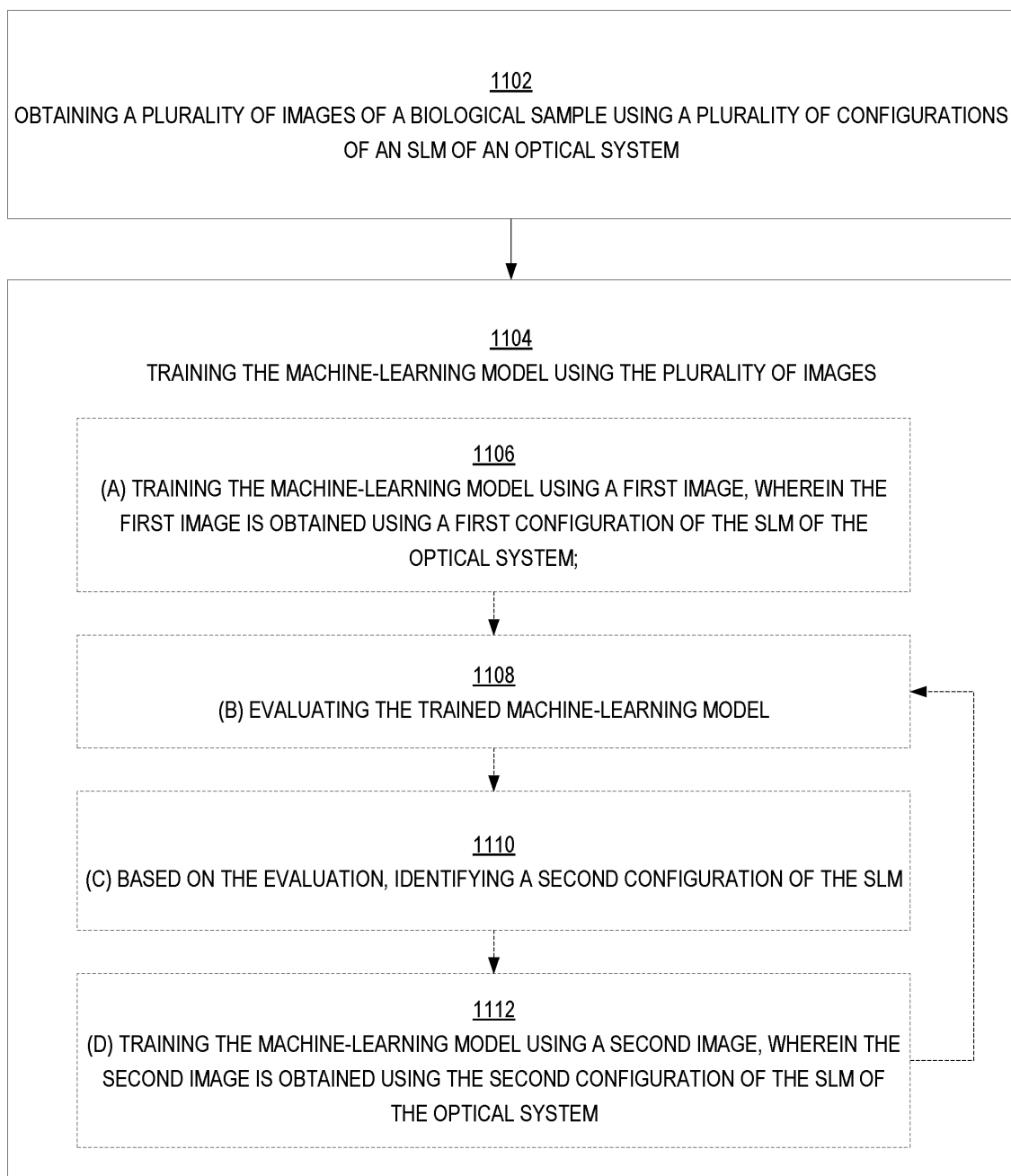
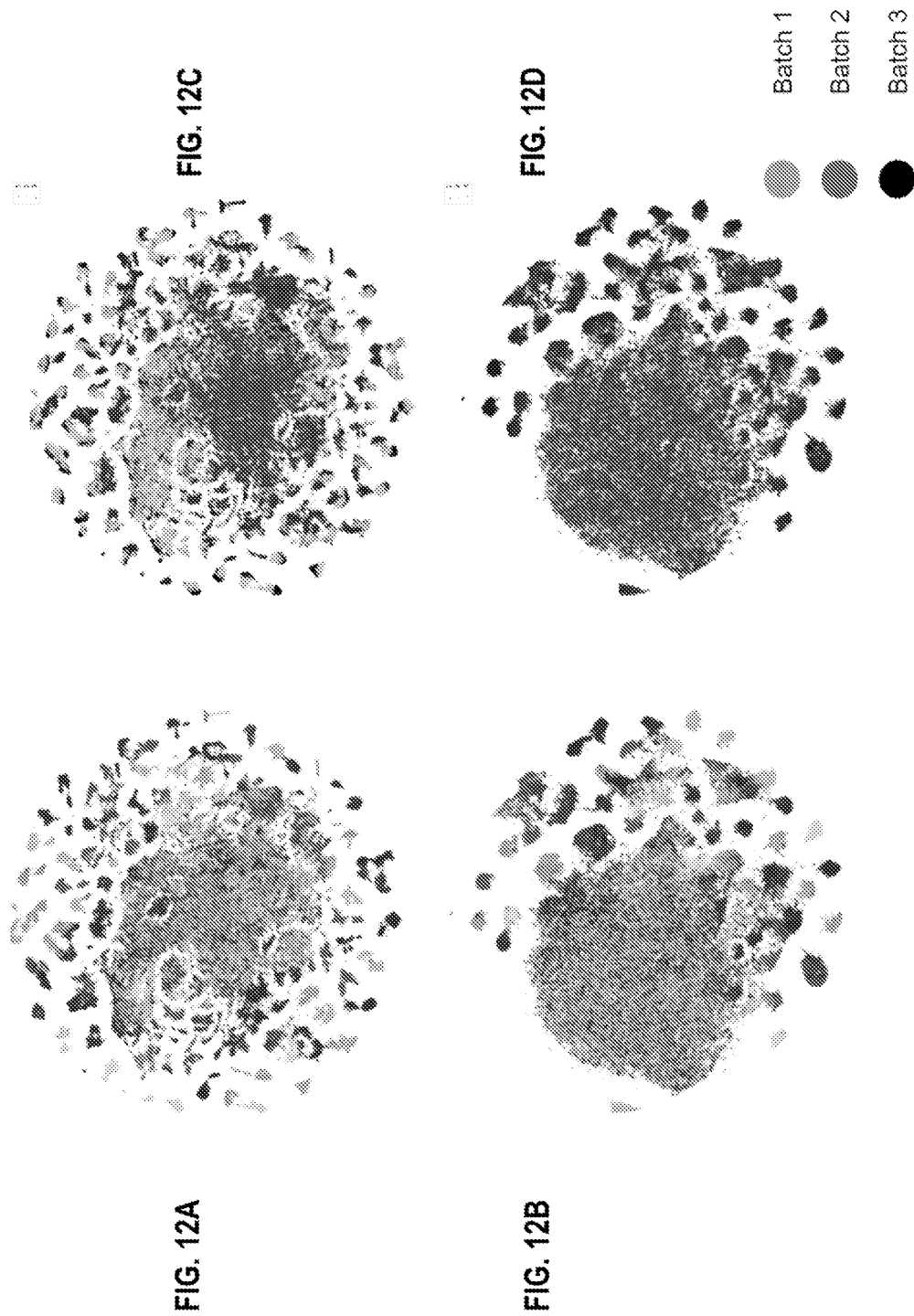


FIG. 10

1100**FIG. 11**



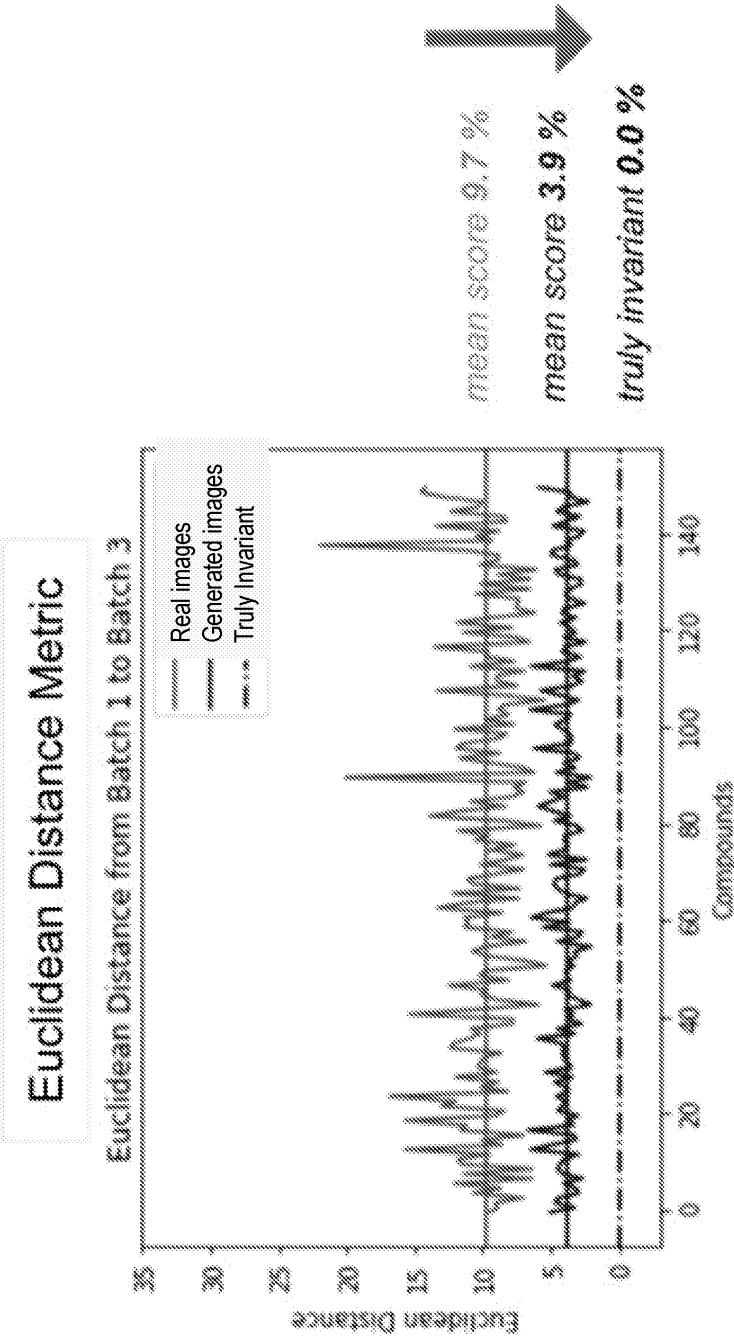


FIG. 12E

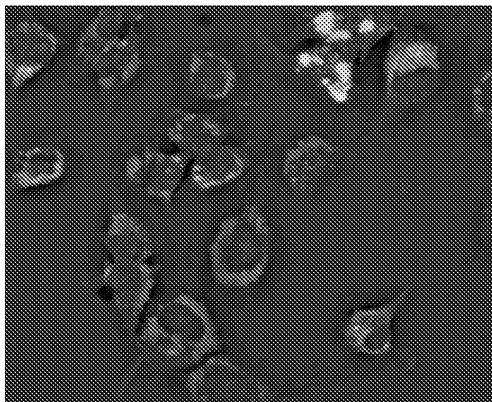


FIG. 13C

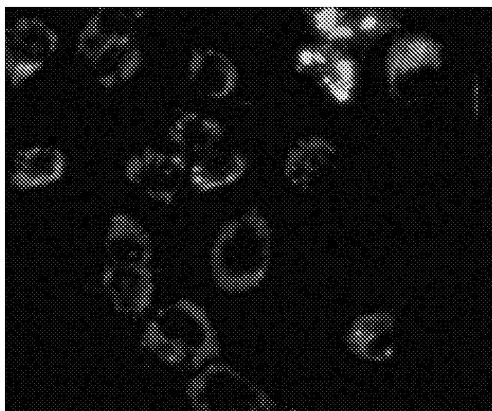


FIG. 13B

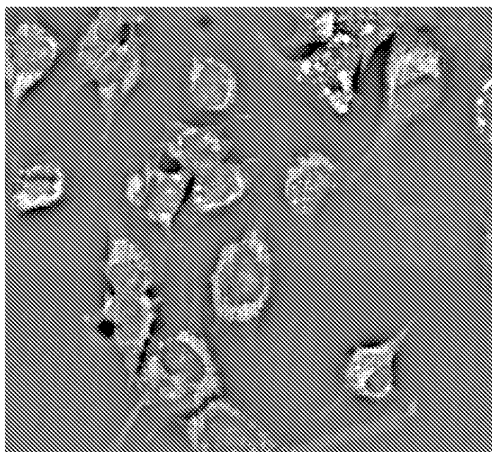
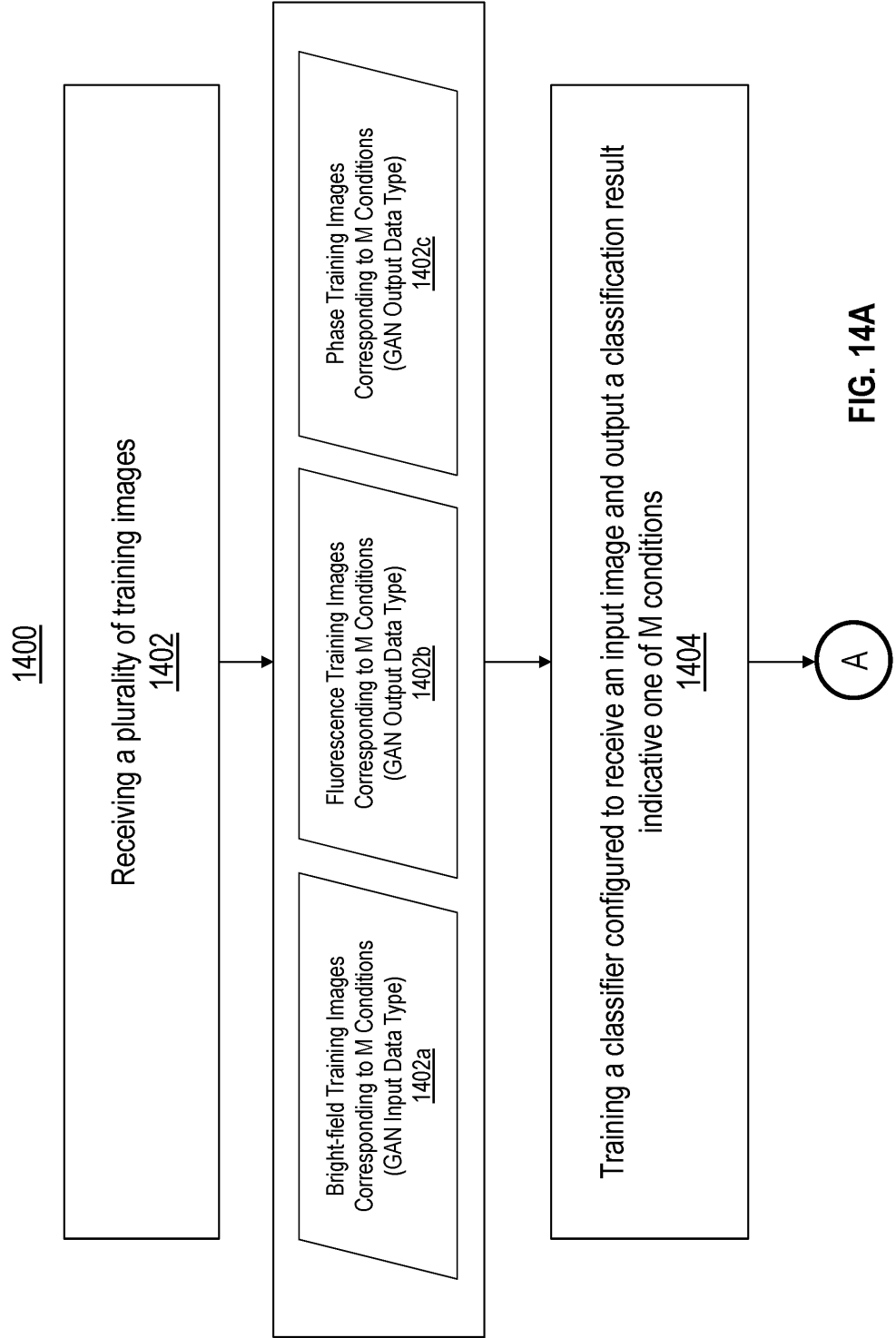
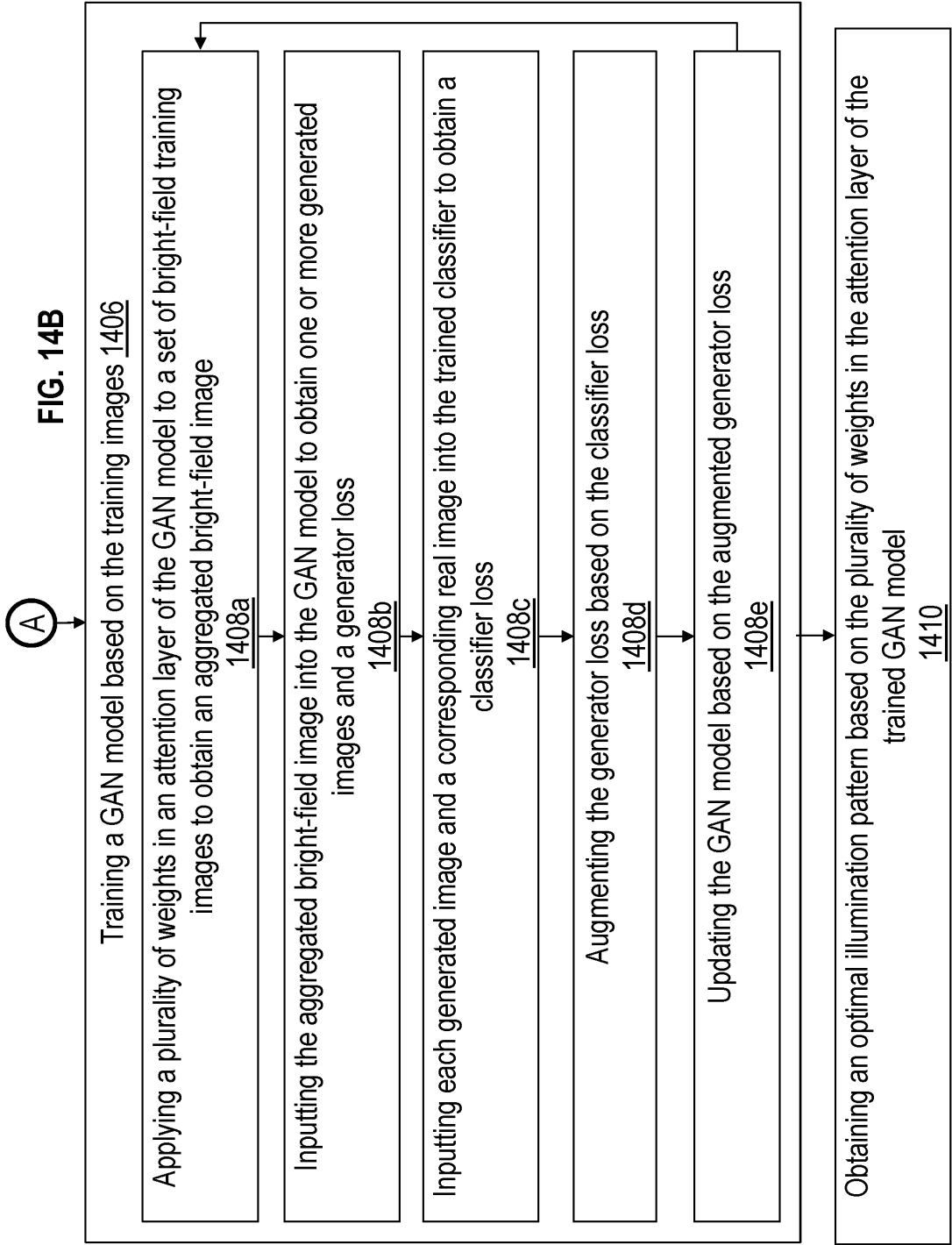


FIG. 13A





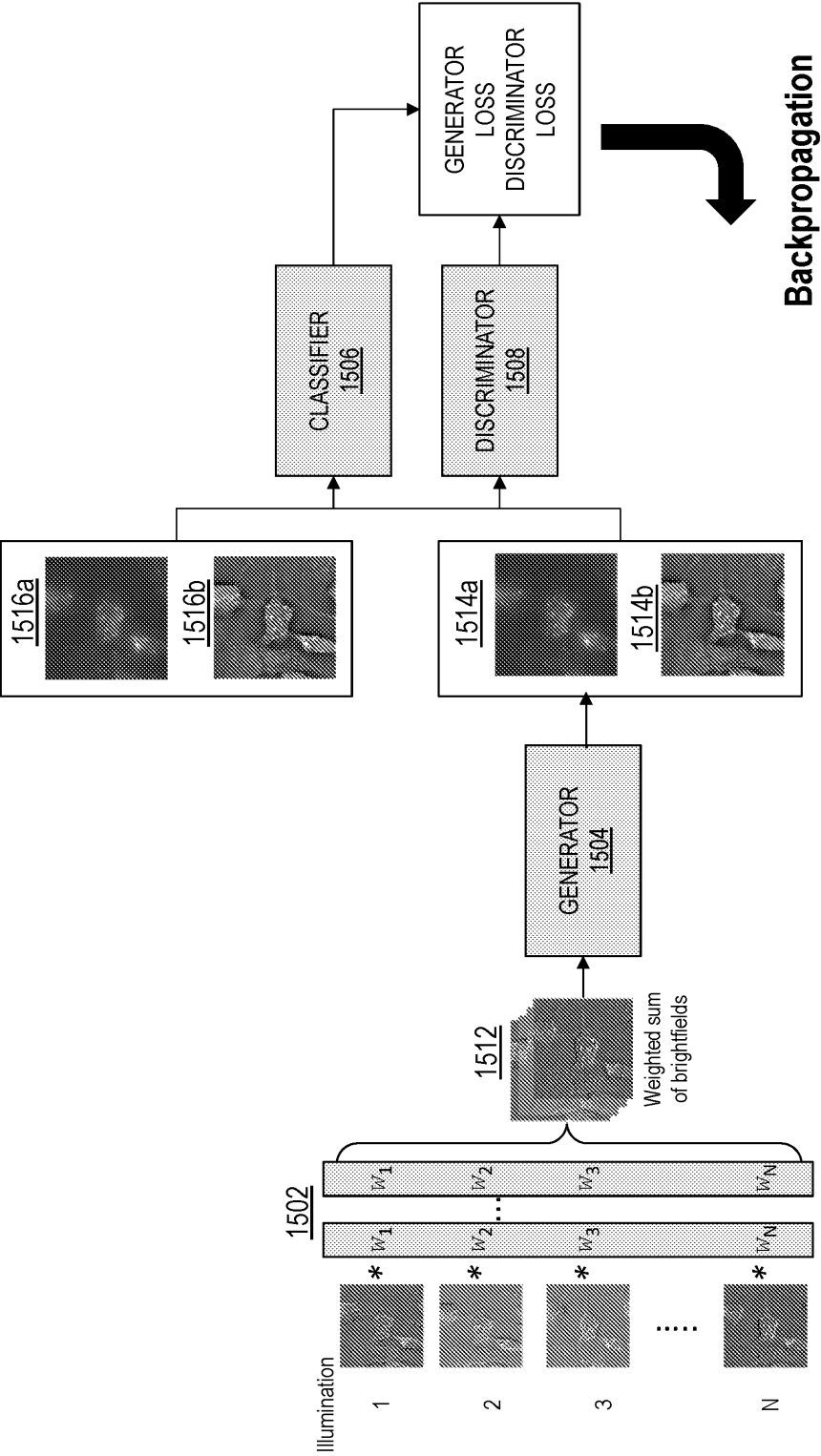


FIG. 15

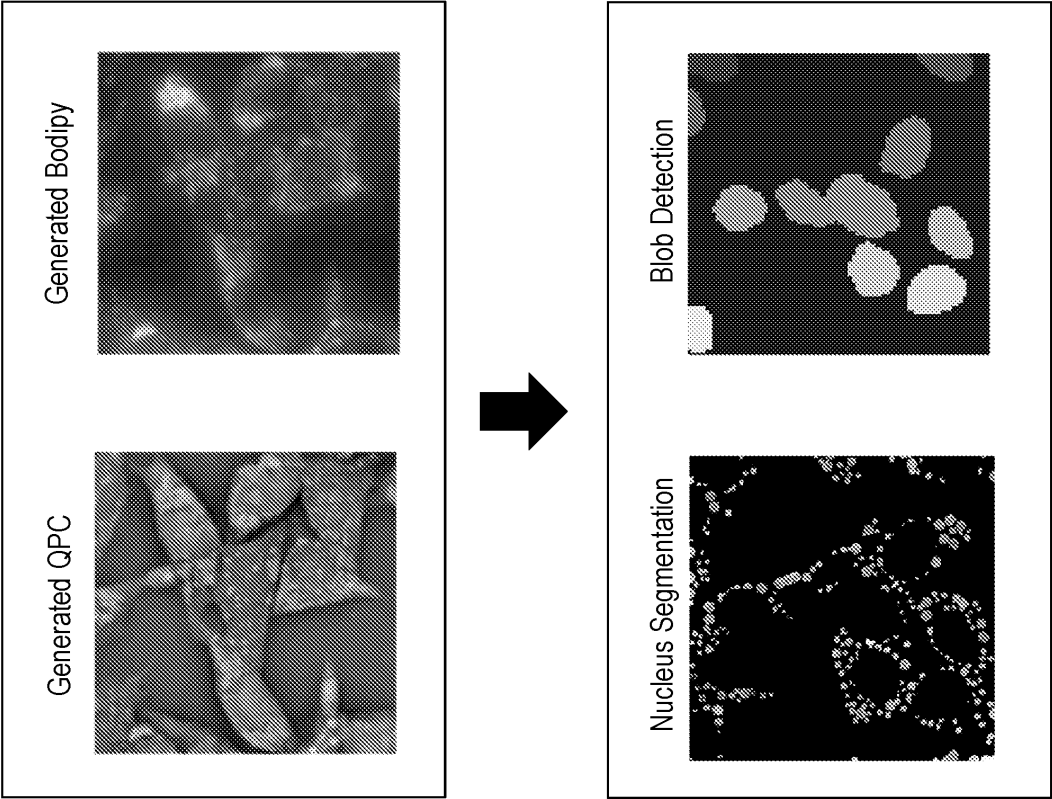


FIG. 16A

FIG. 16B



FIG. 16D

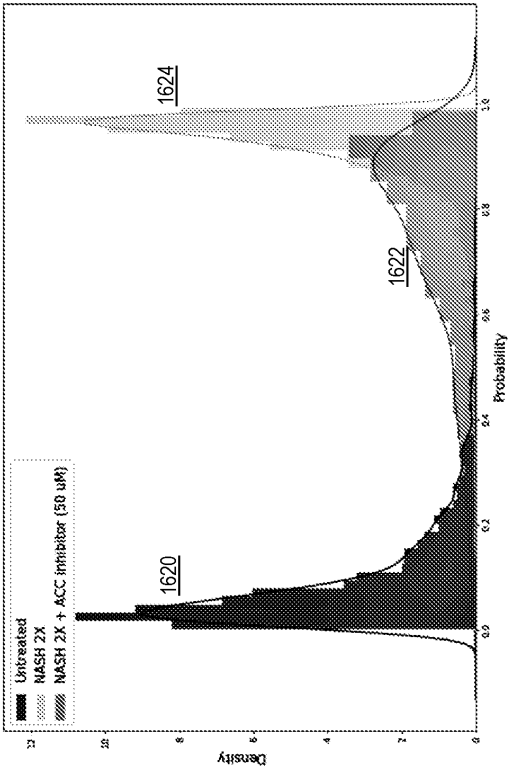


FIG. 16C

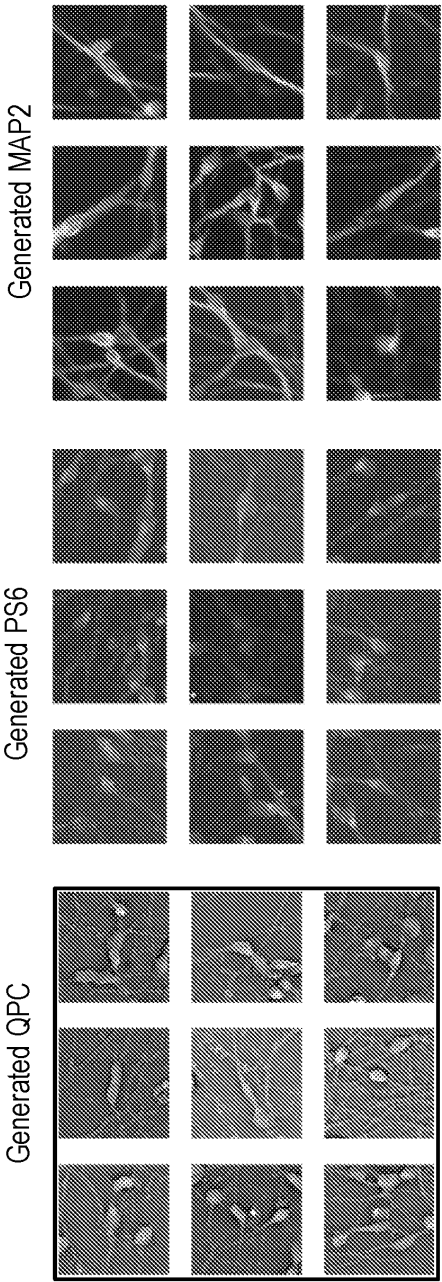


FIG. 17A

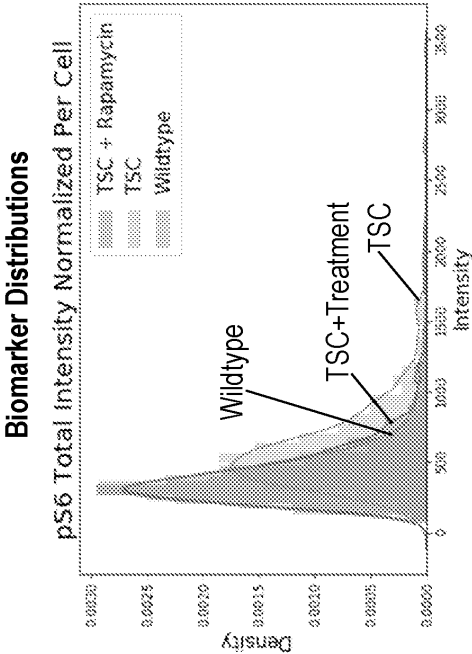


FIG. 17B