

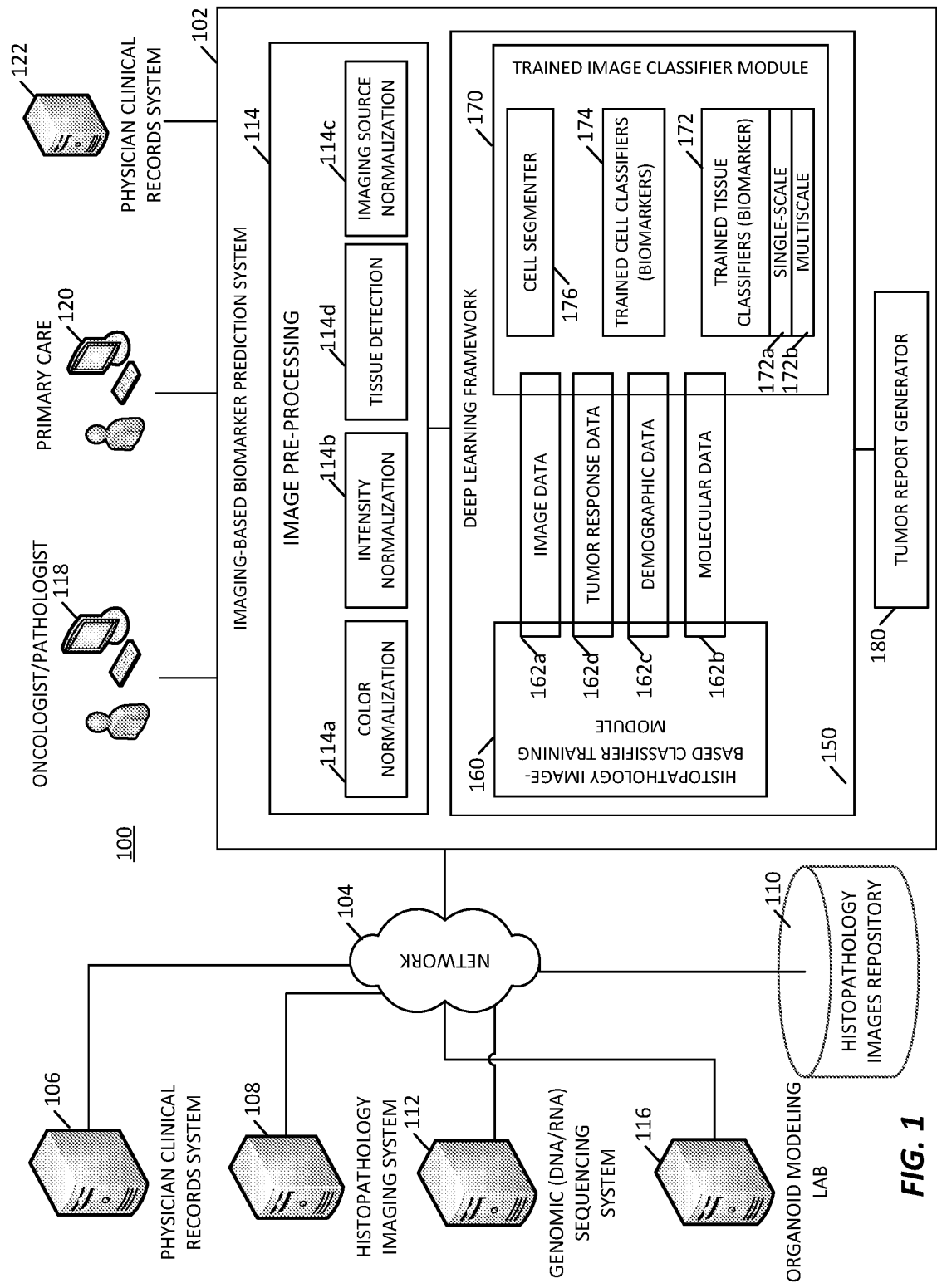
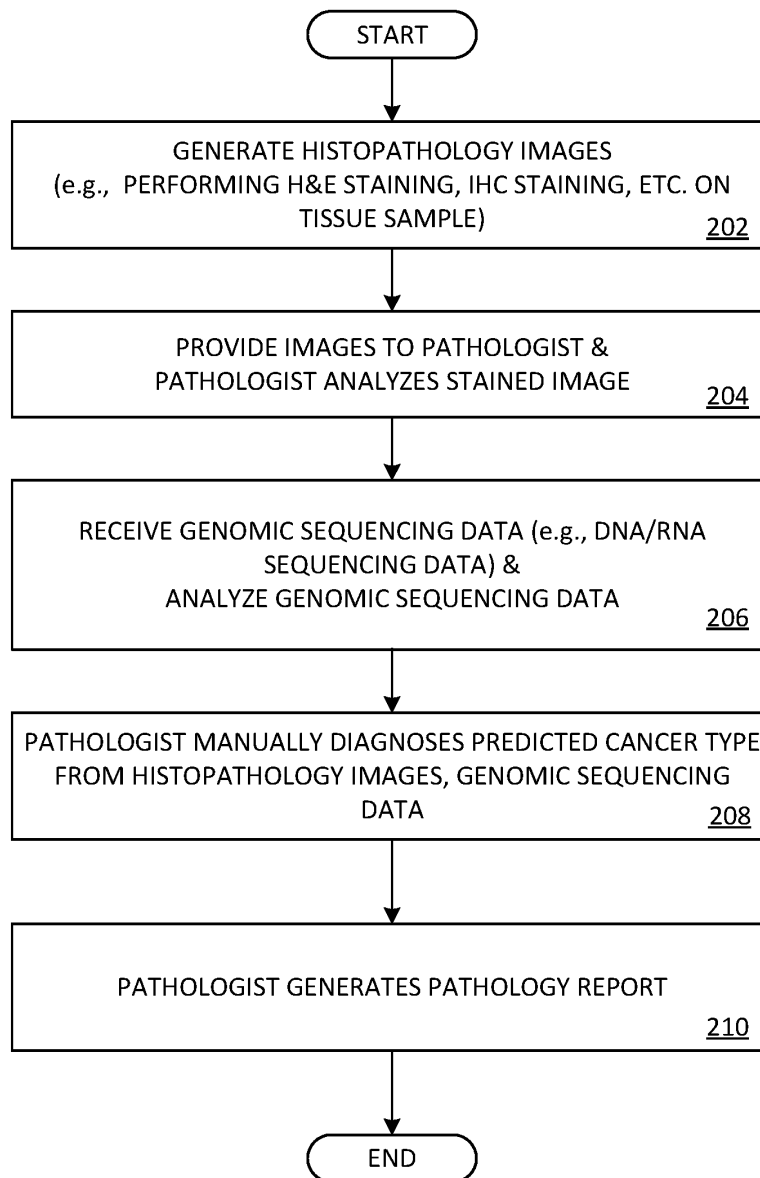


FIG. 1

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200**FIG. 2**

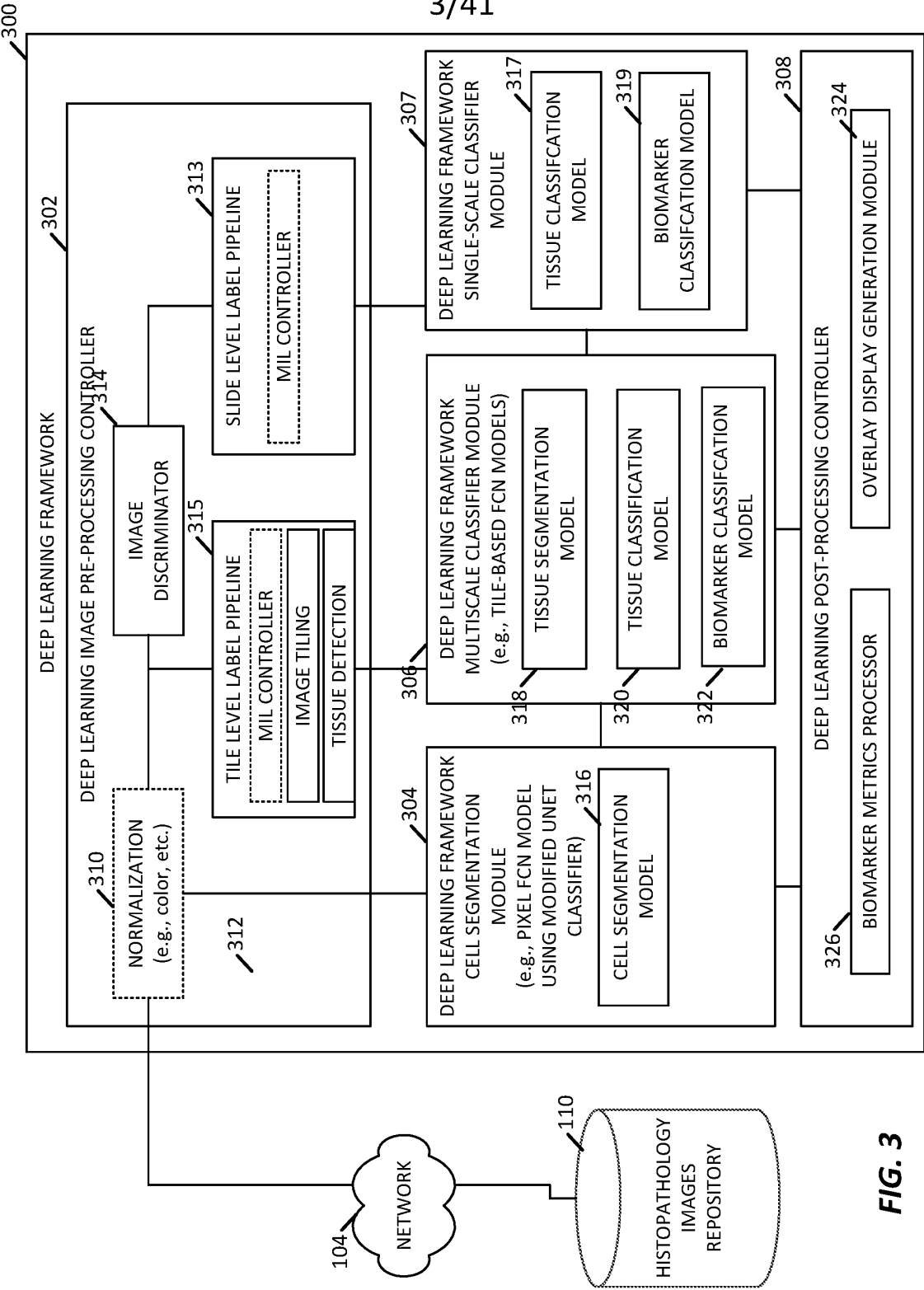
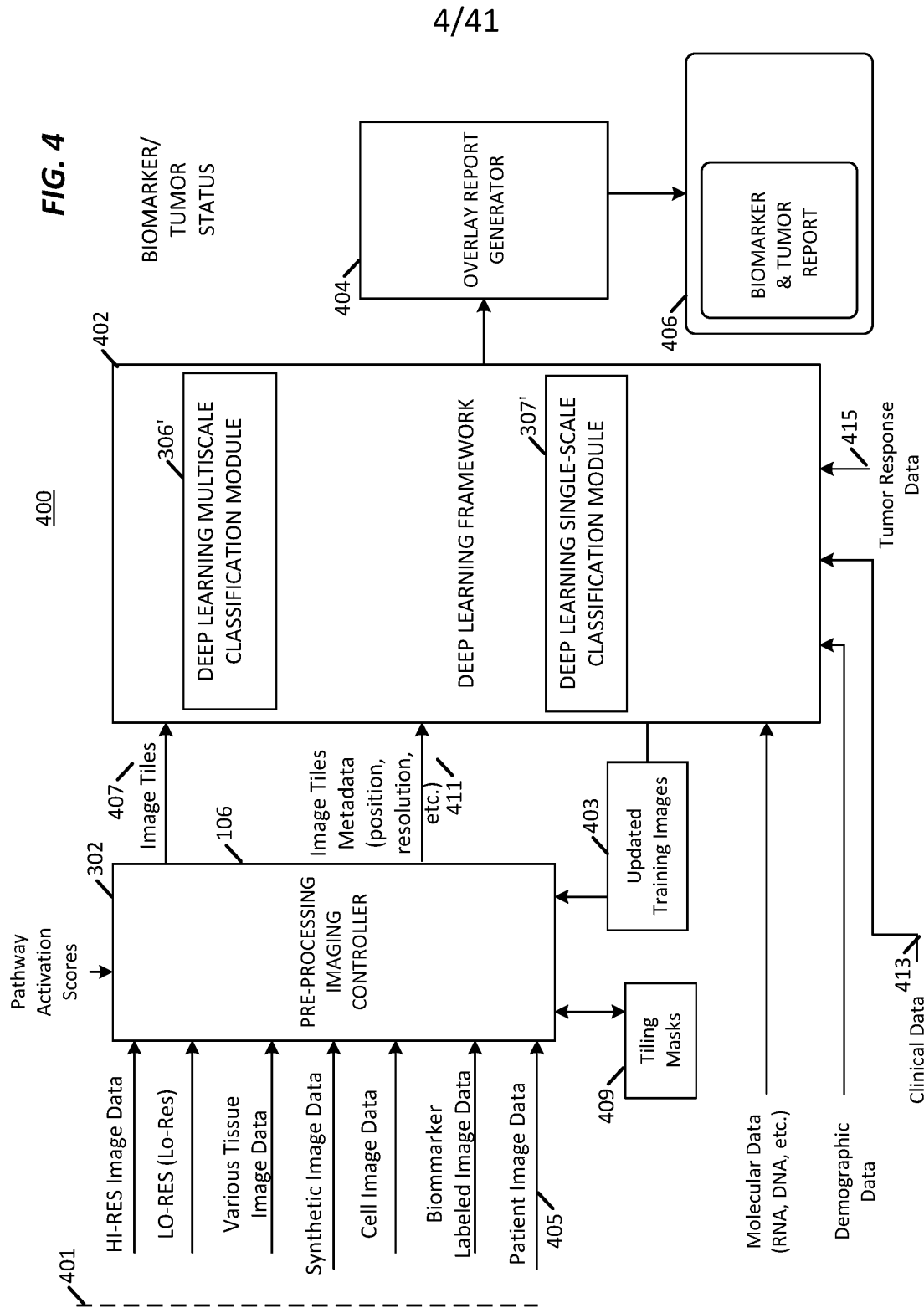


FIG. 3



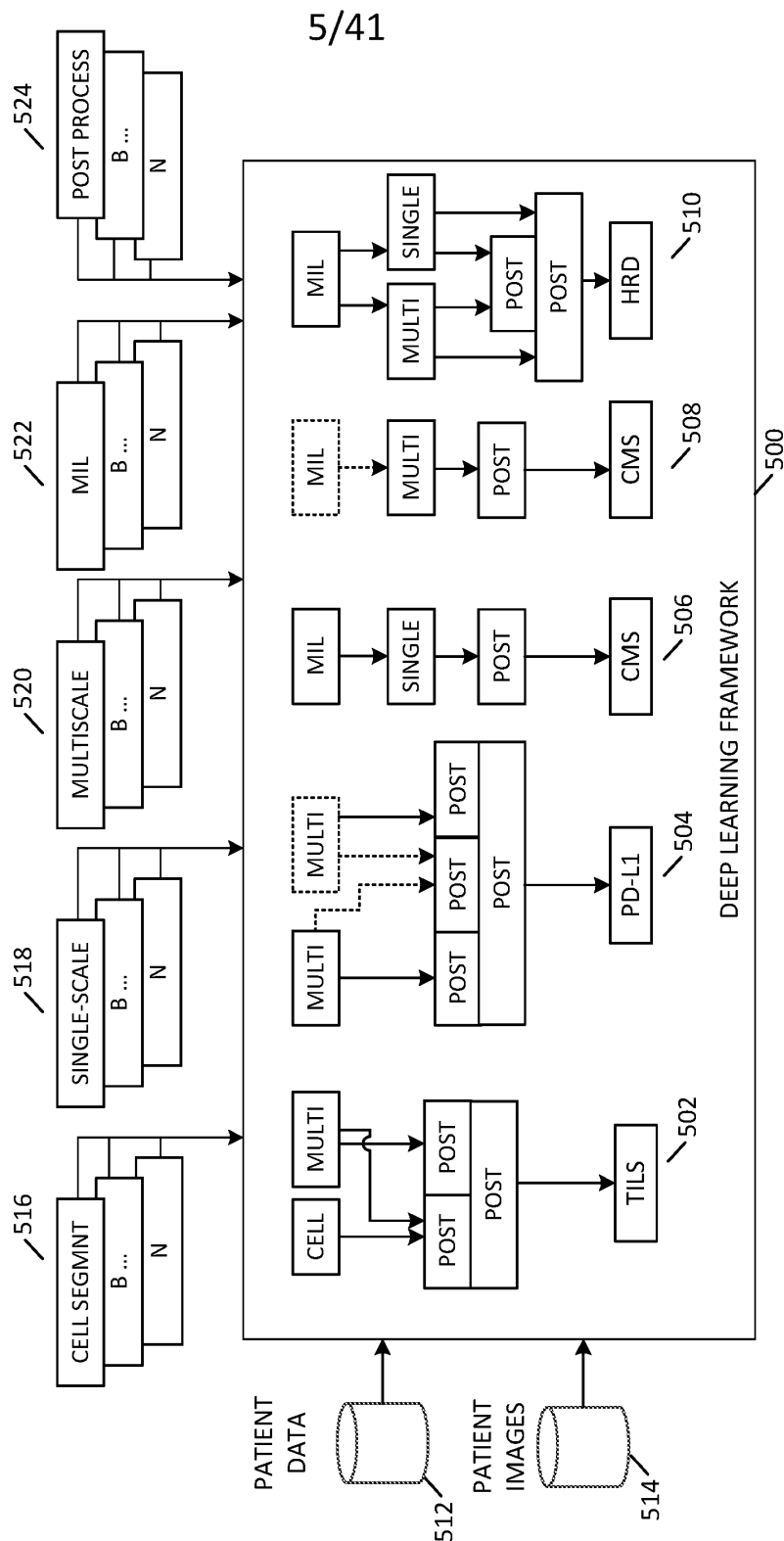


FIG. 5

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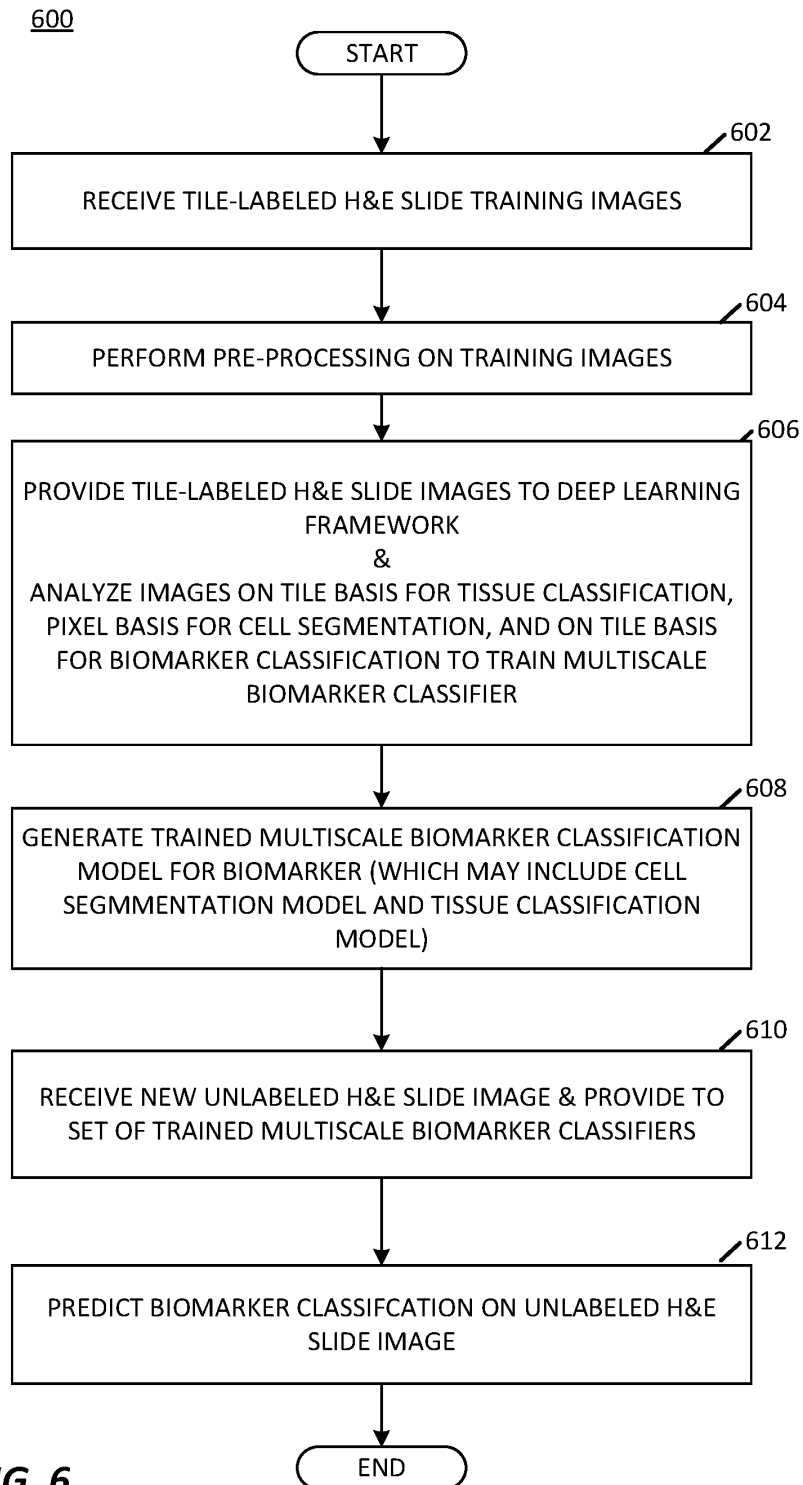


FIG. 6

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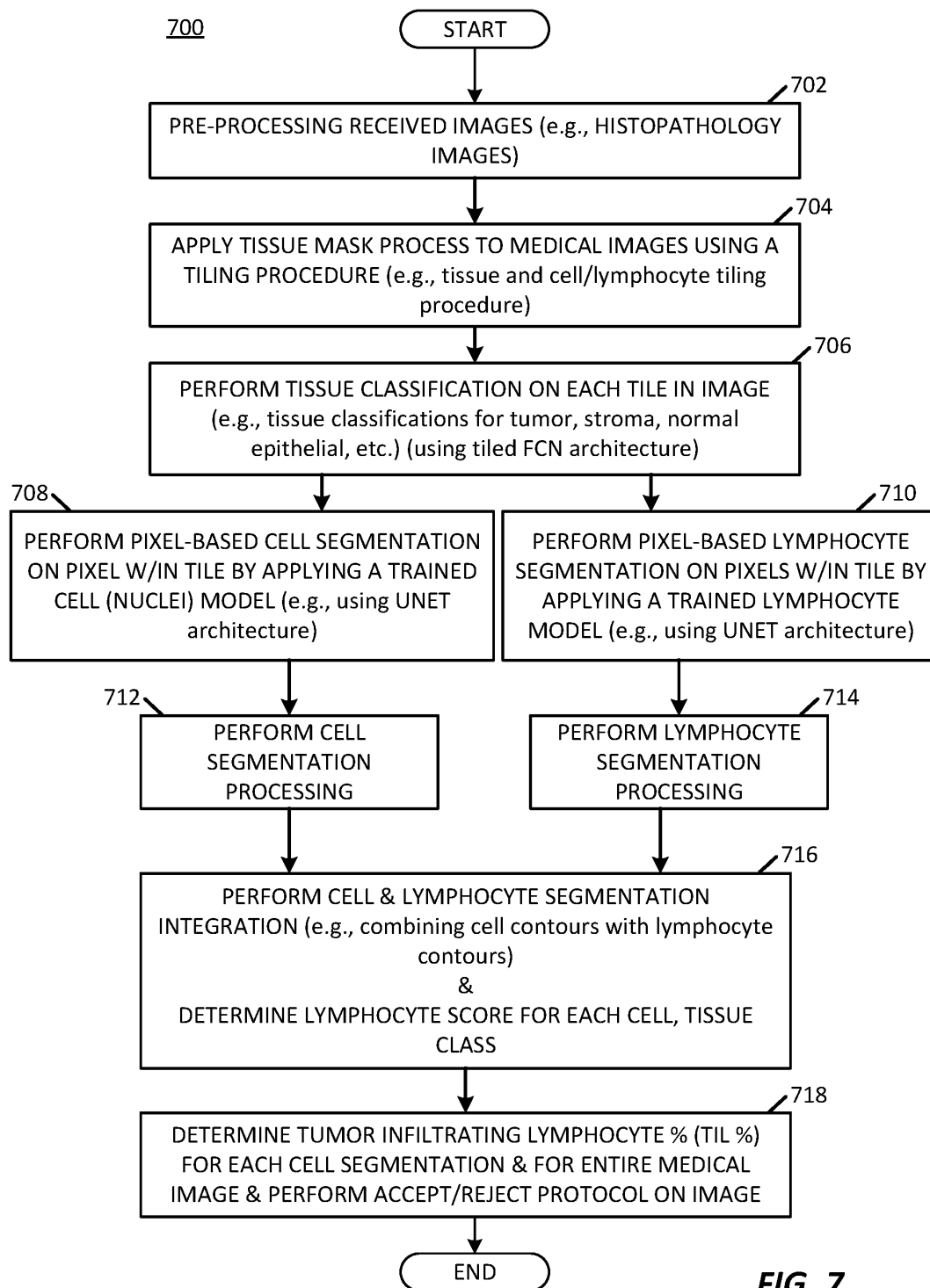
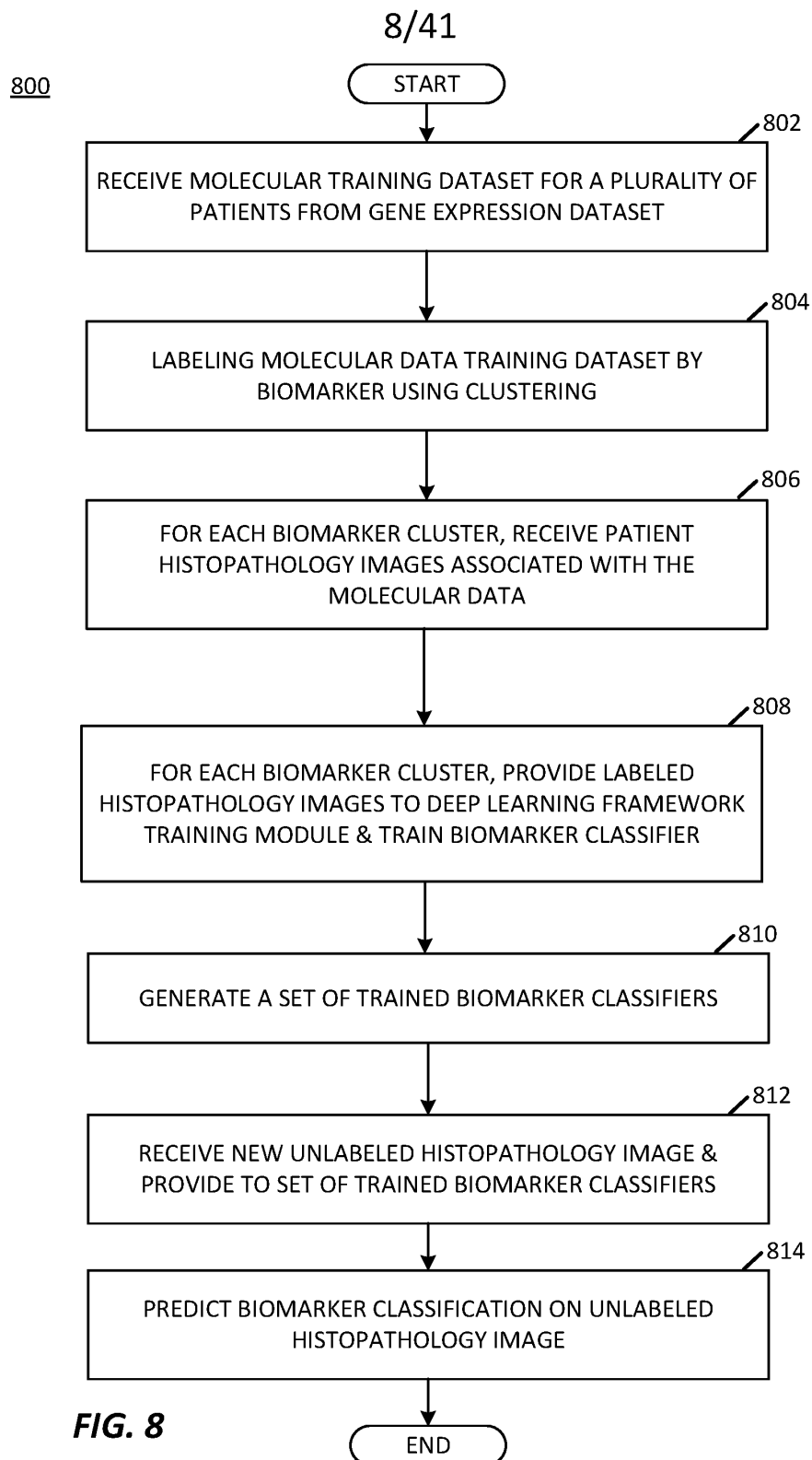
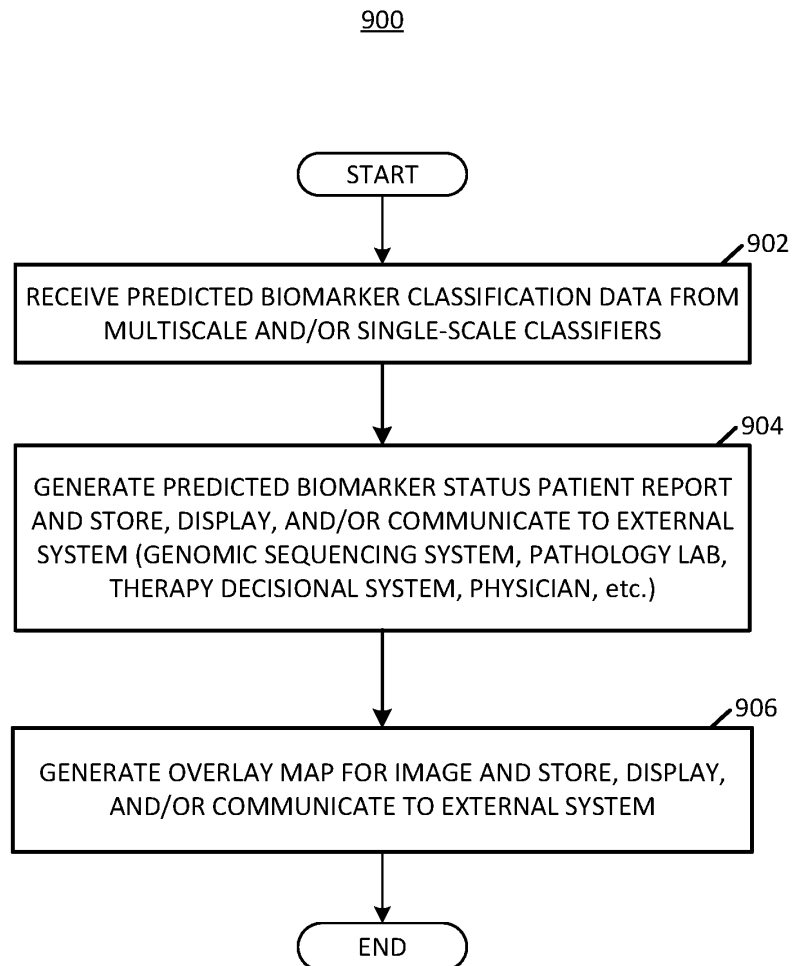


FIG. 7



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**FIG. 9**

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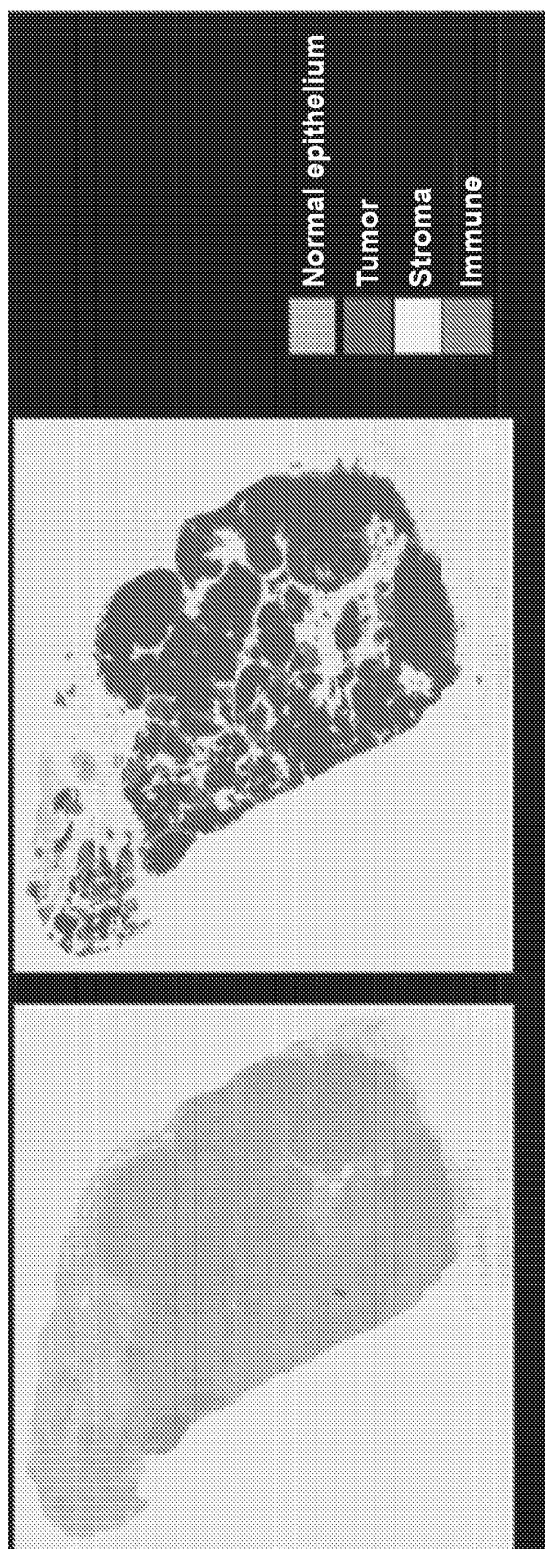


FIG. 10A

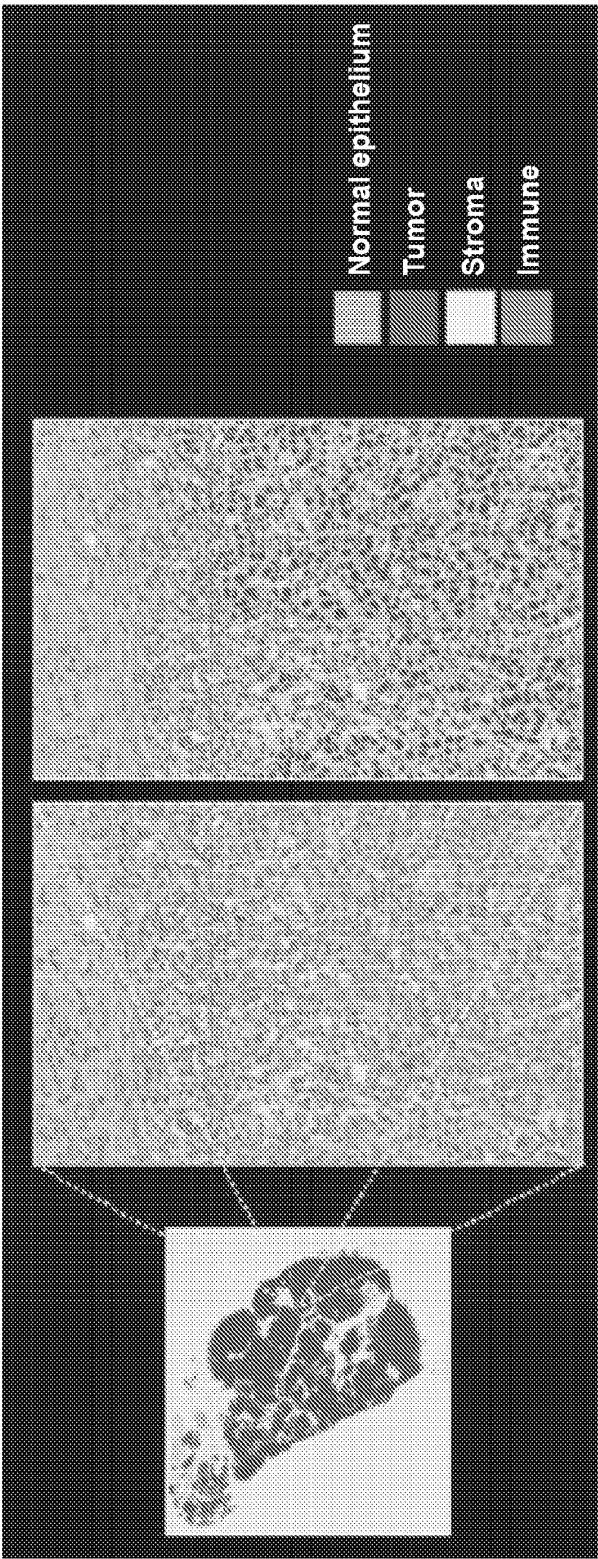
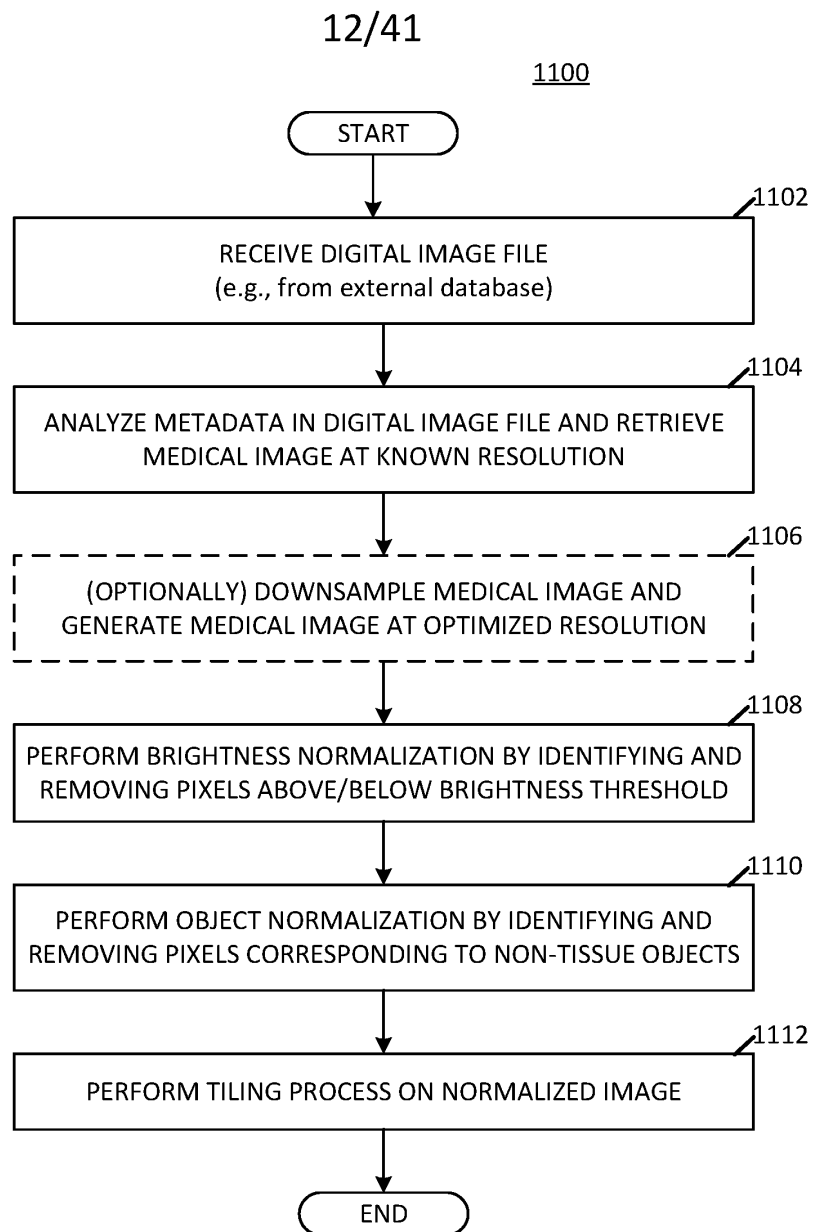
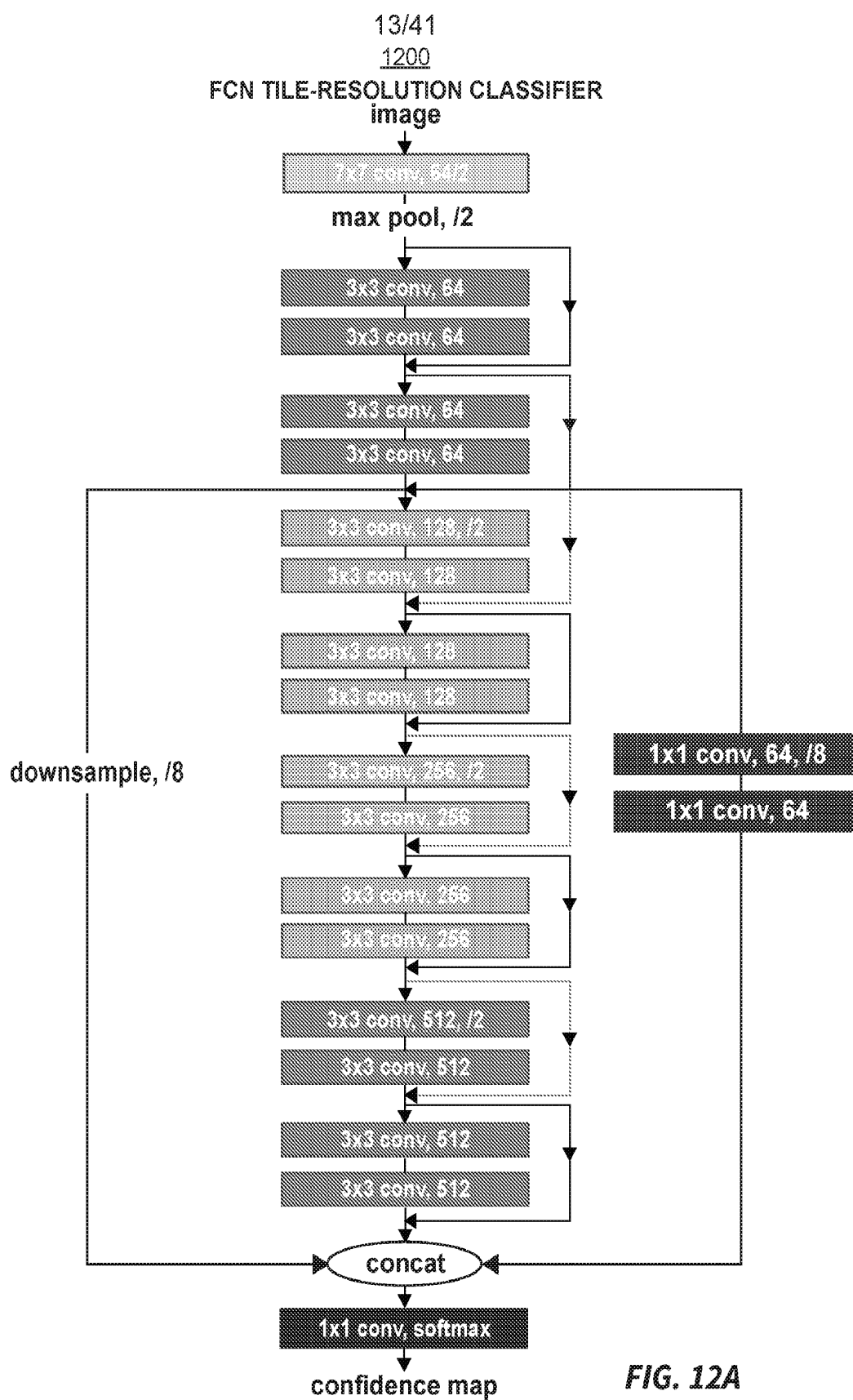


FIG. 10B

**FIG. 11**



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FCN TILE-RESOLUTION CLASSIFIER

layer name	output size	sub layer
input layer	$(434+32N) \times (434+32N) \times 3$	
conv1	$(214+16N) \times (214+16N) \times 64$	
max pool	$(106+8N) \times (106+8N) \times 64$	
conv2_x	$(98+8N) \times (98+8N) \times 64$	Four 3x3 conv layers
conv3_x	$(42+4N) \times (42+4N) \times 128$	Four 3x3 conv layers
conv4_x	$(14+2N) \times (14+2N) \times 256$	Four 3x3 conv layers
conv5_x	$N \times N \times 512$	Four 3x3 conv layers
concat	$N \times N \times (512+64+64)$	
1x1 conv	$N \times N \times \text{\#classes}$	
softmax	$N \times N$	

No padding

FIG. 12B

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FCN TILE-RESOLUTION CLASSIFIER

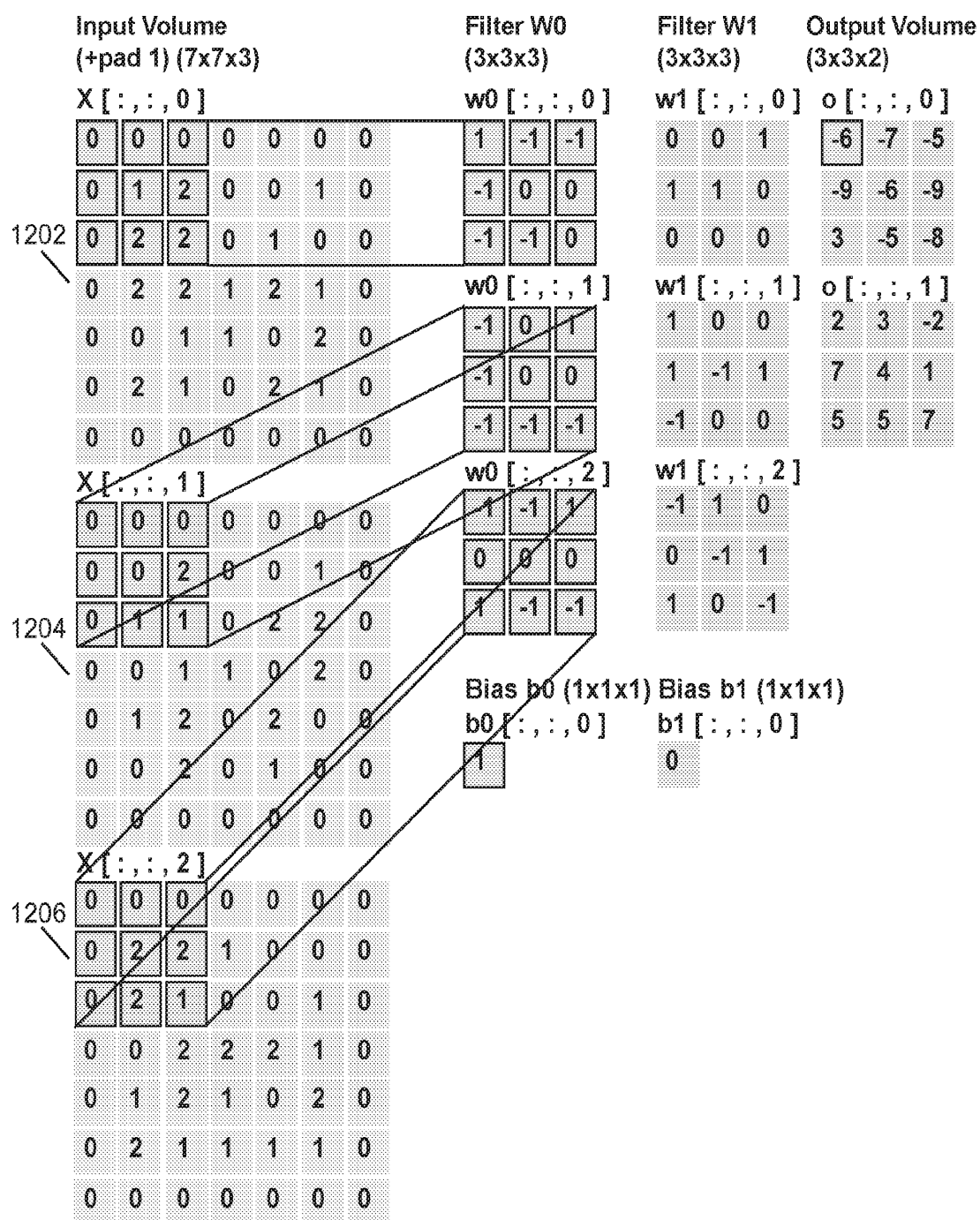


FIG. 12C

1300

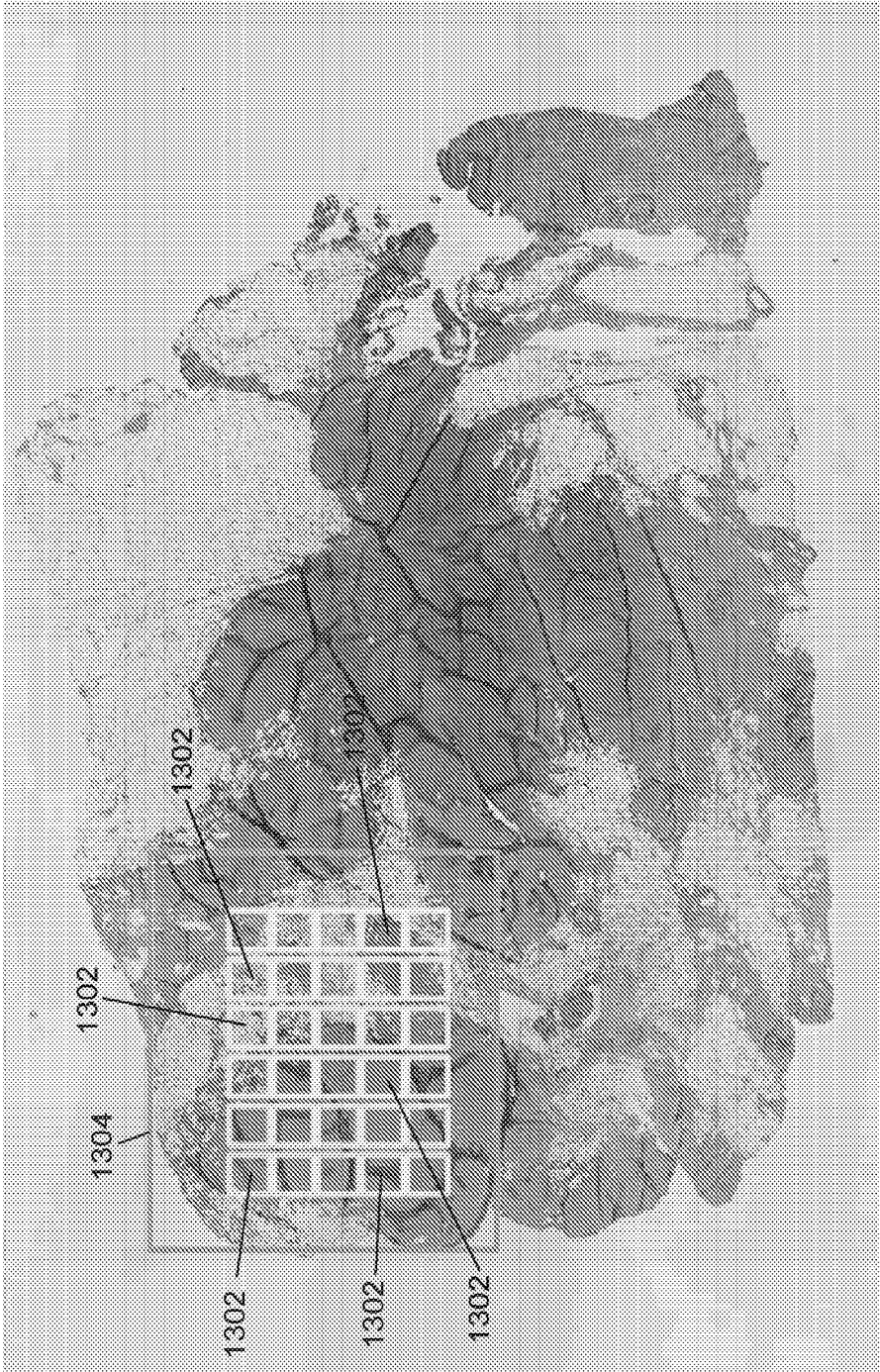


FIG. 13

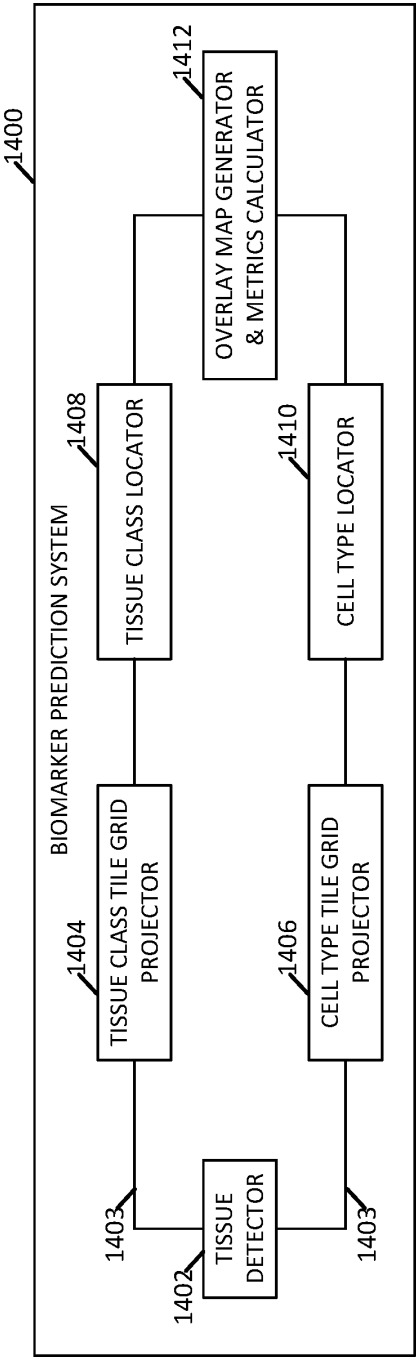


FIG. 14

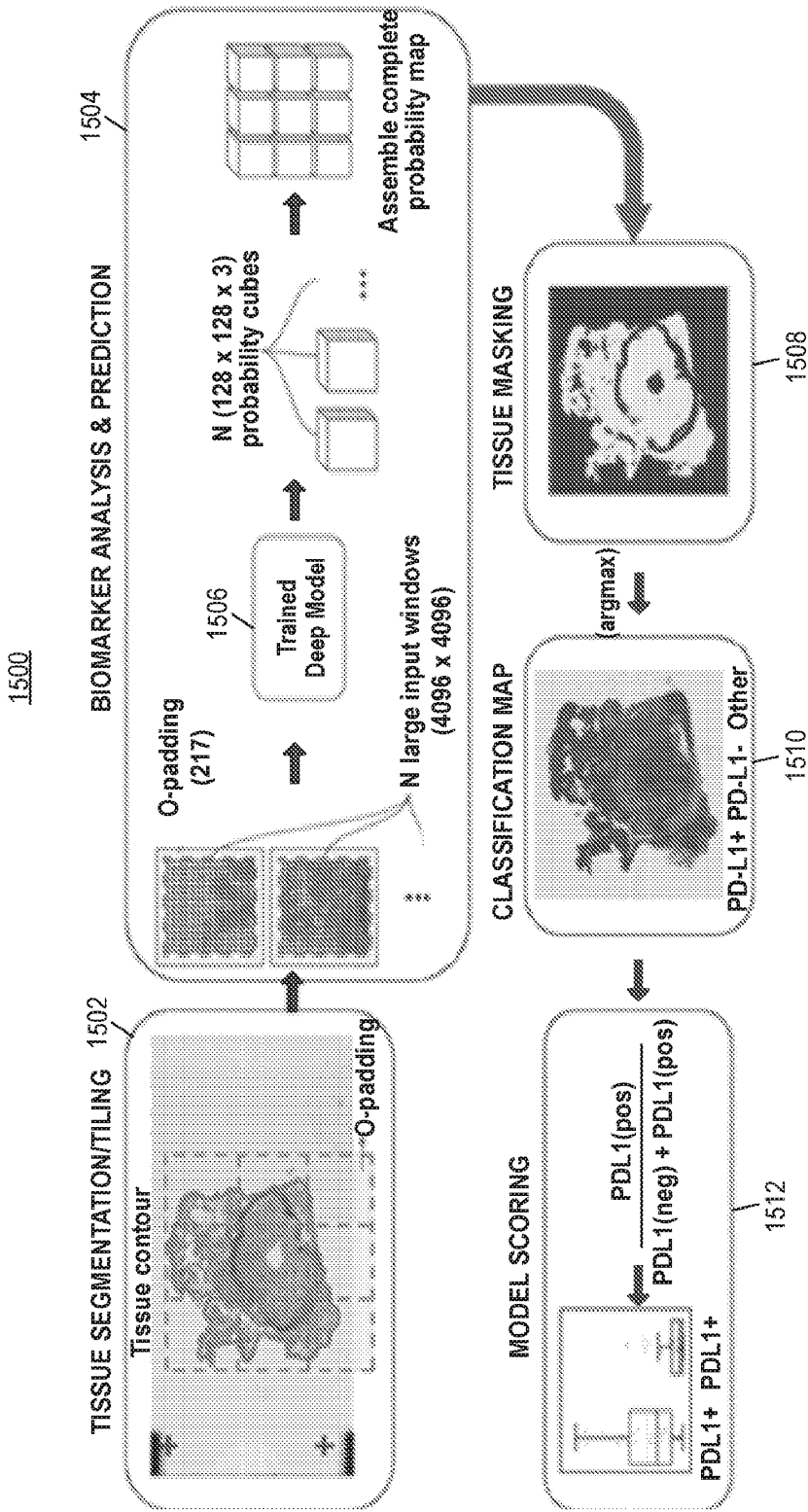


FIG. 15A

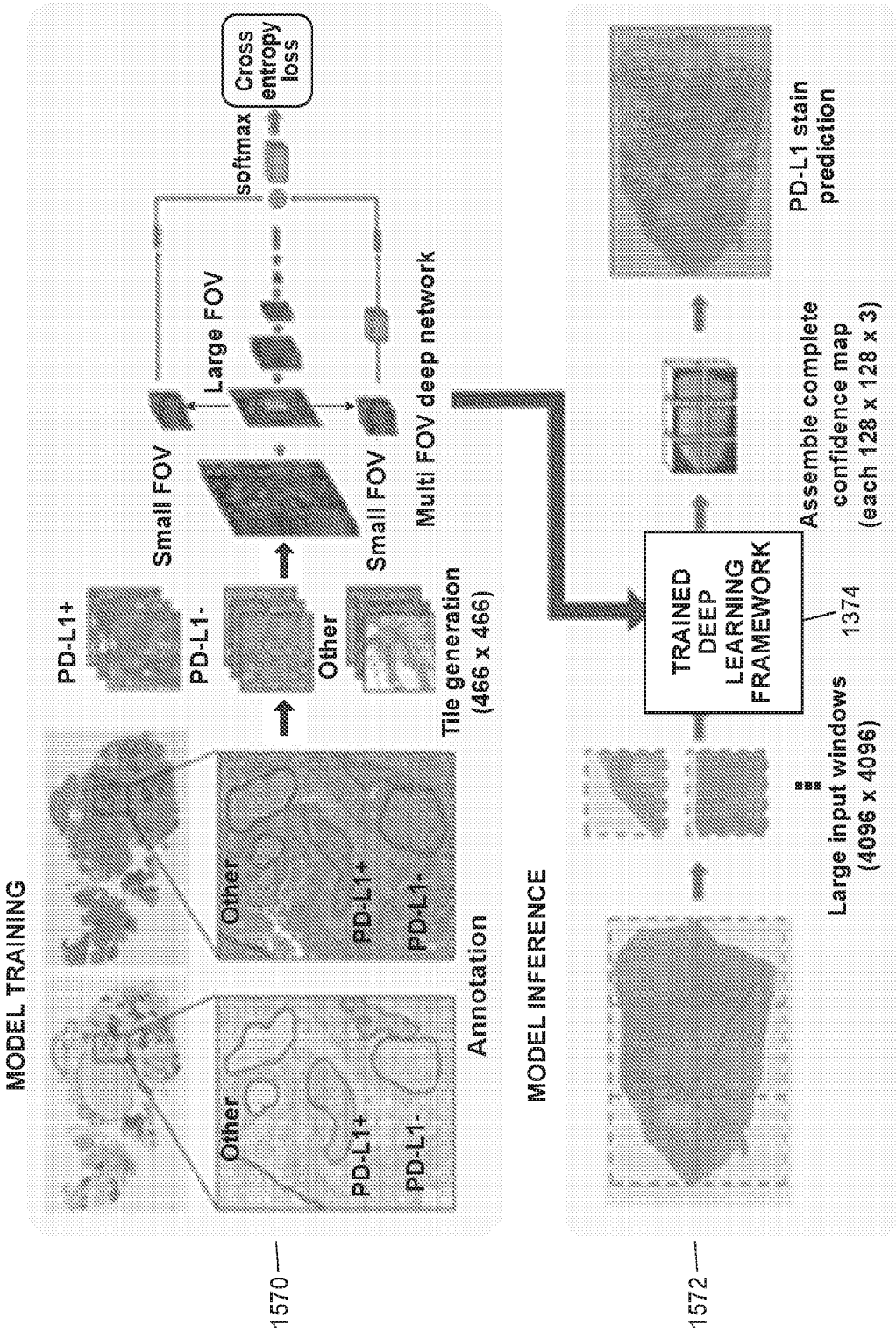


FIG. 15B

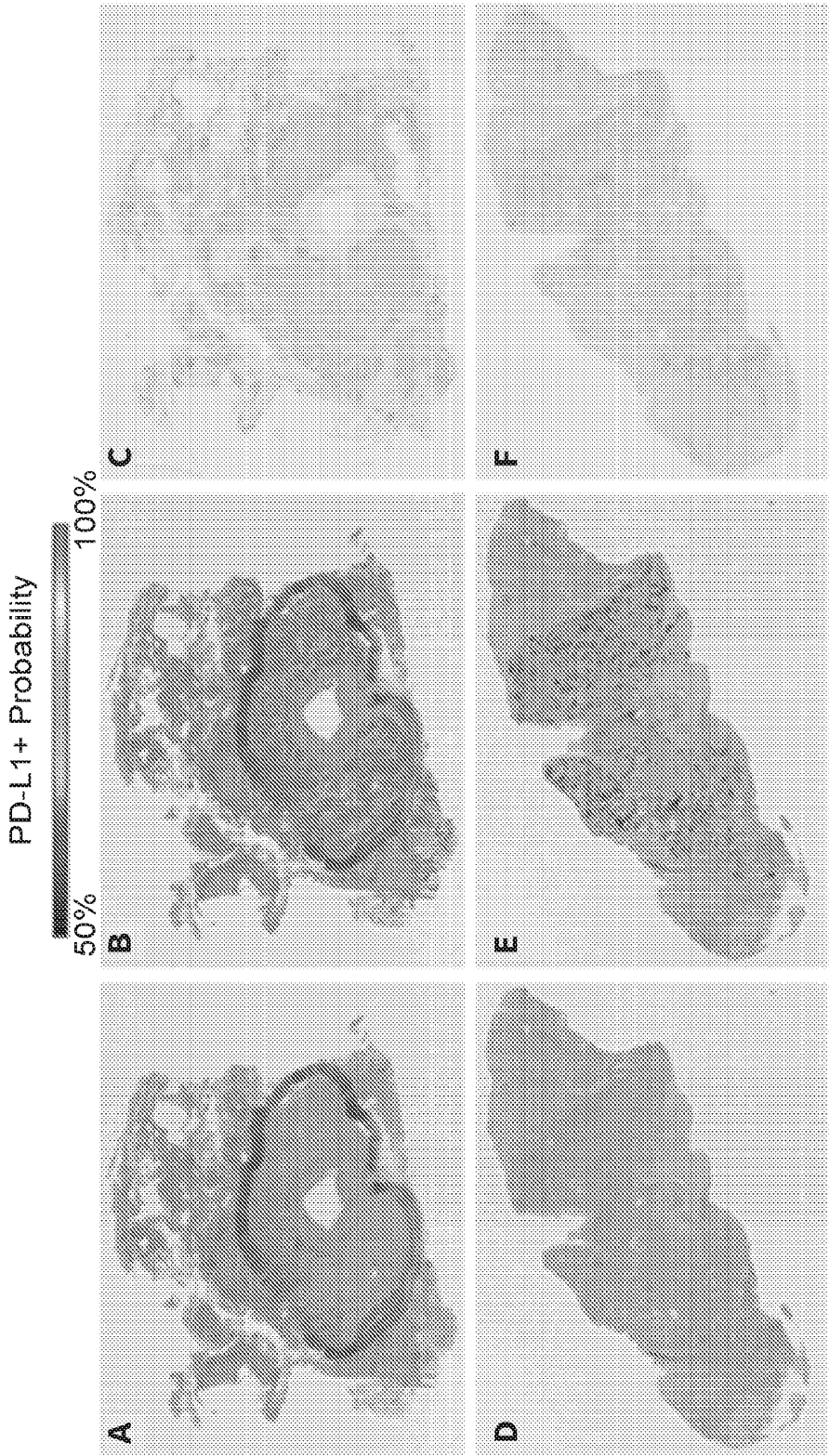


FIG. 16A-16F

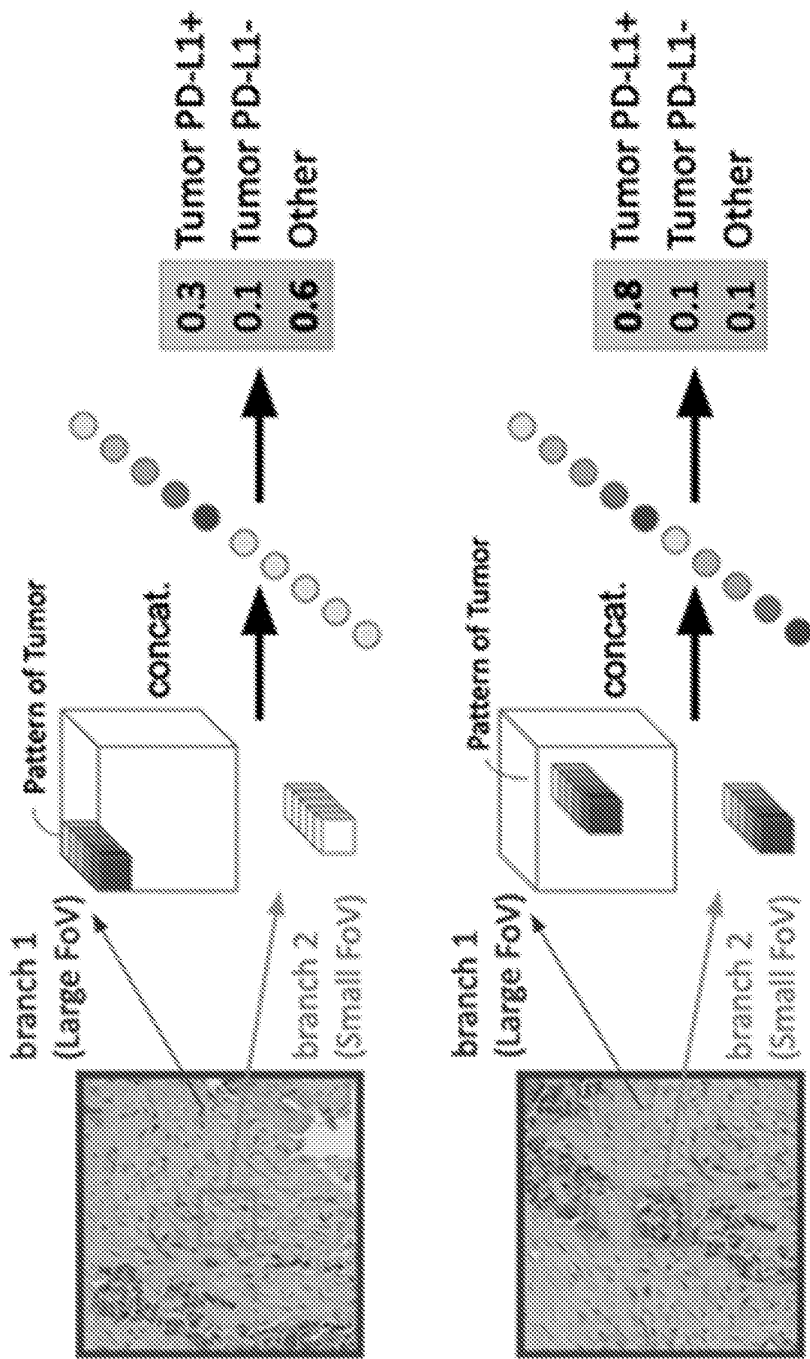


FIG. 17

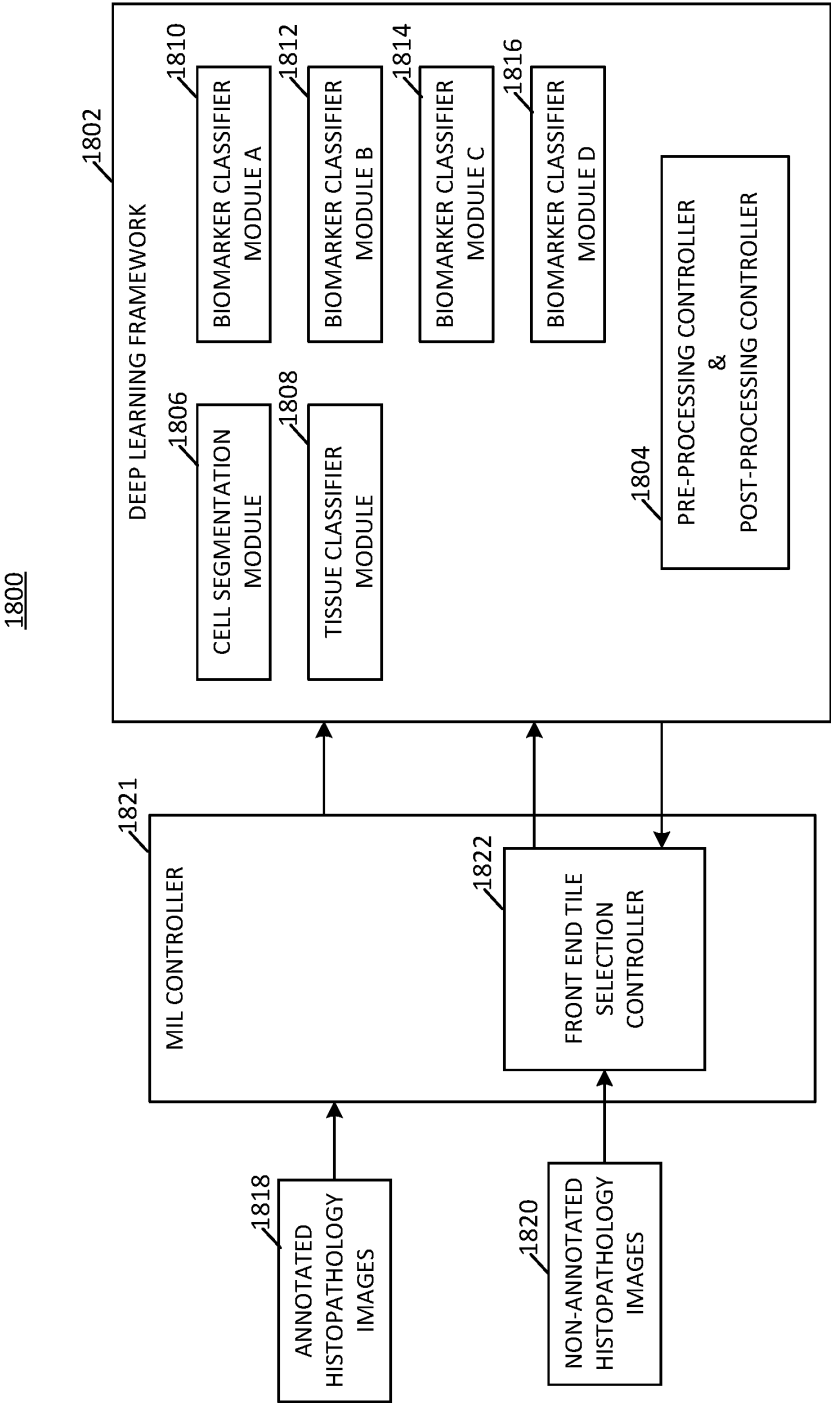
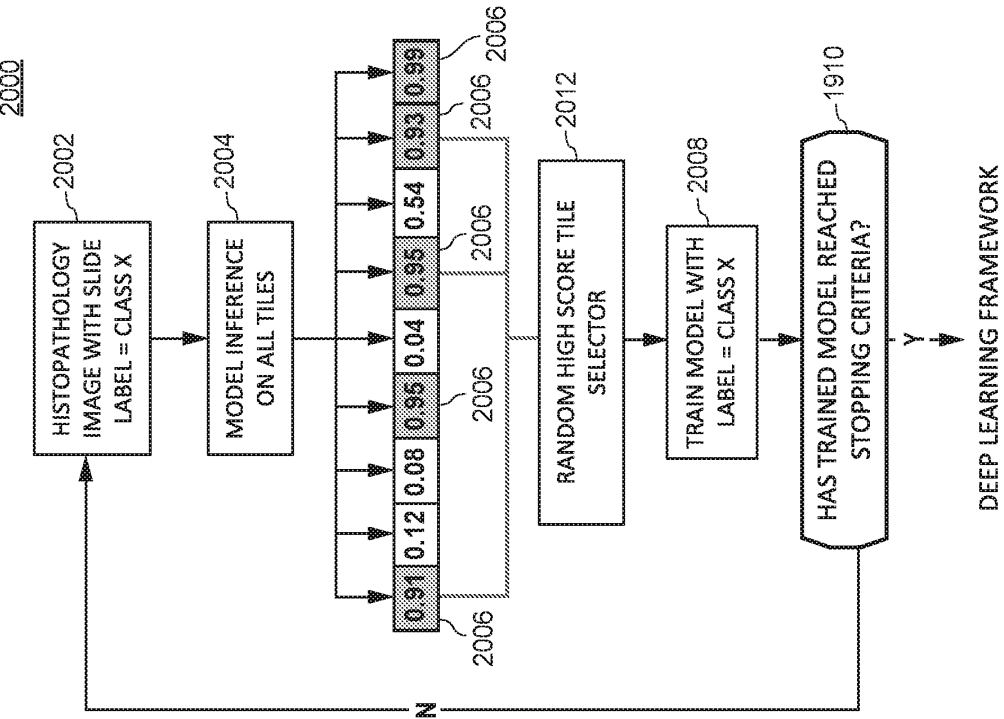


FIG. 18



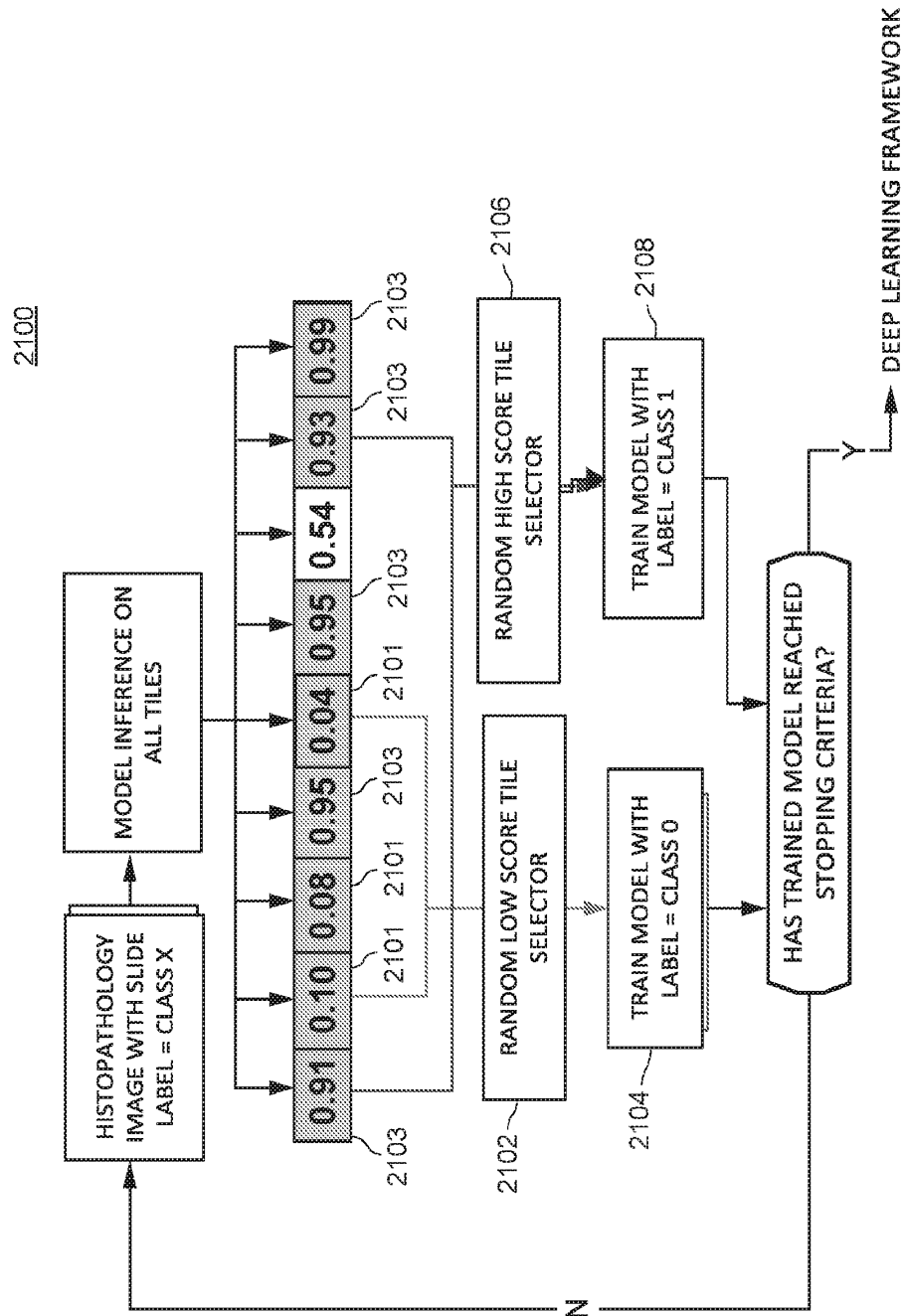
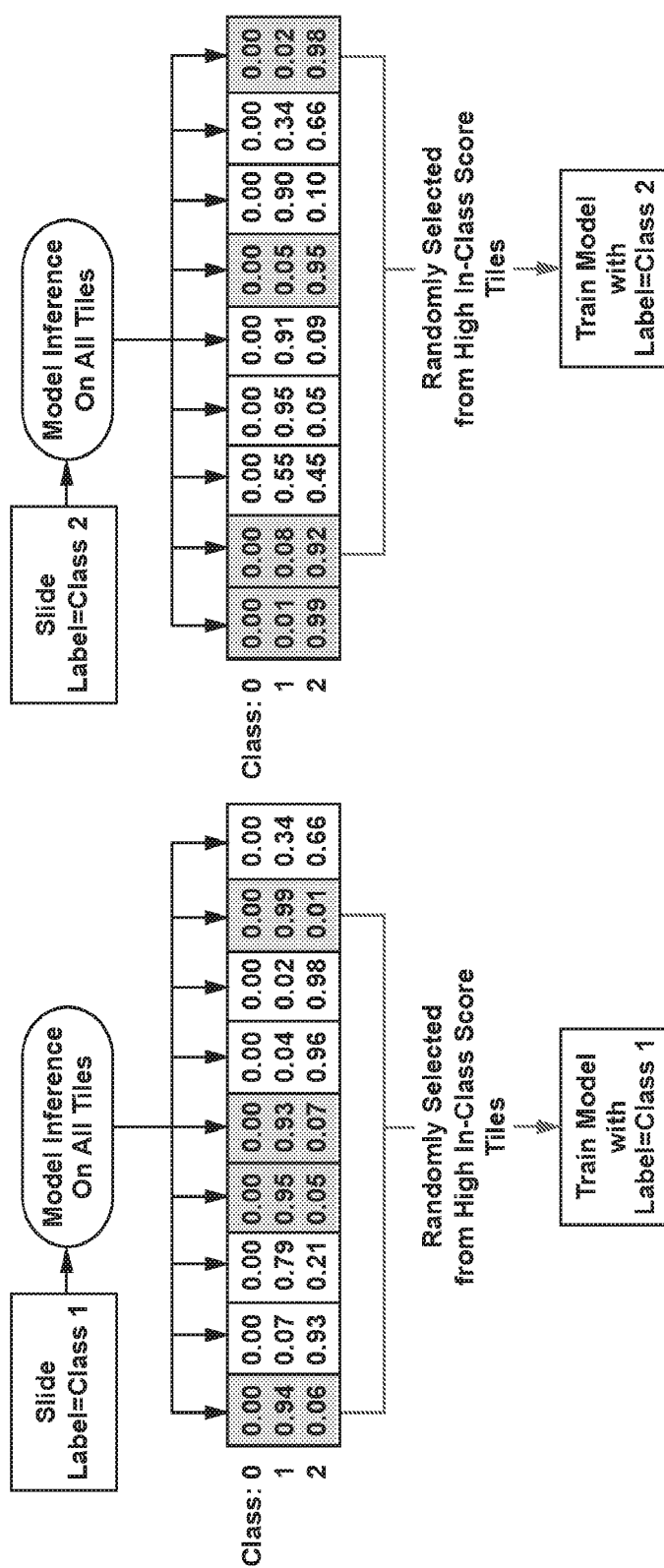


FIG. 21

2200



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FIG. 23

2200

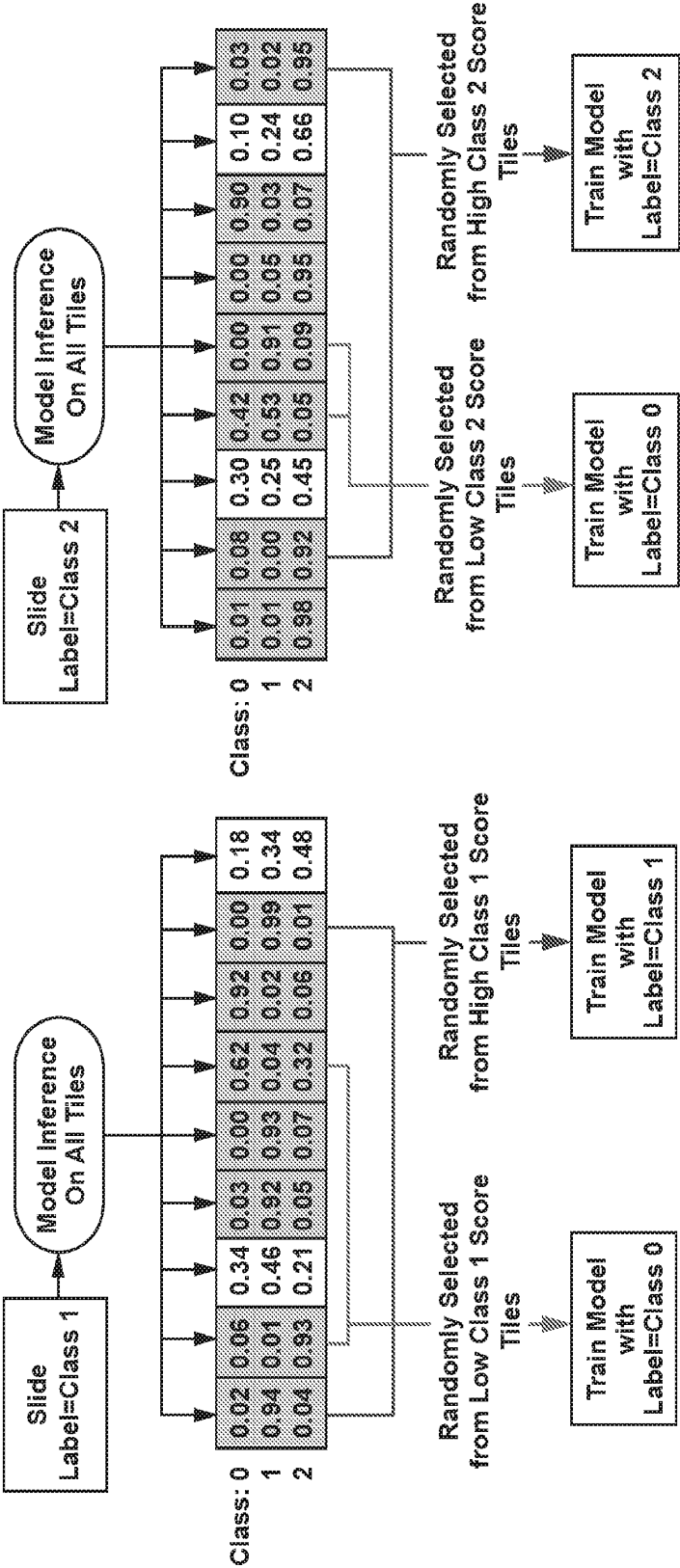


FIG. 24

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FIG. 25

2200

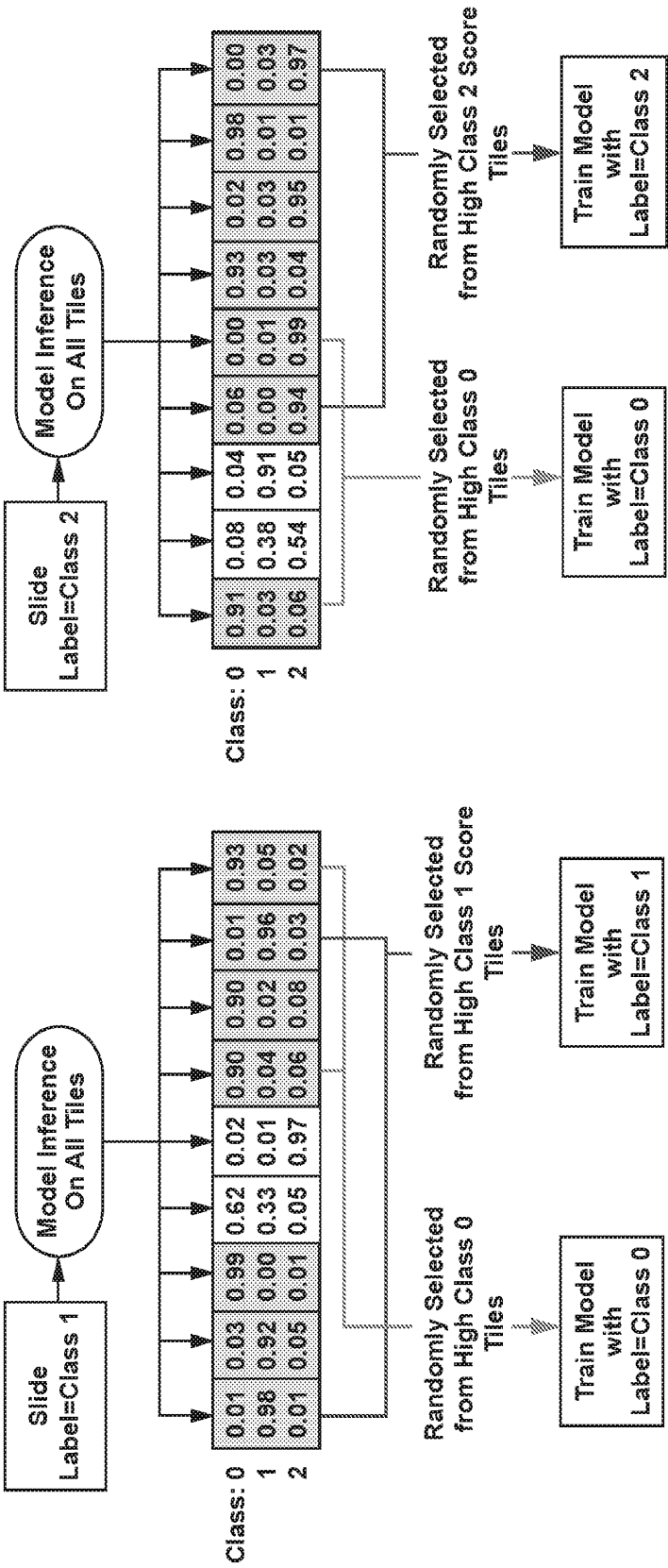


FIG. 26

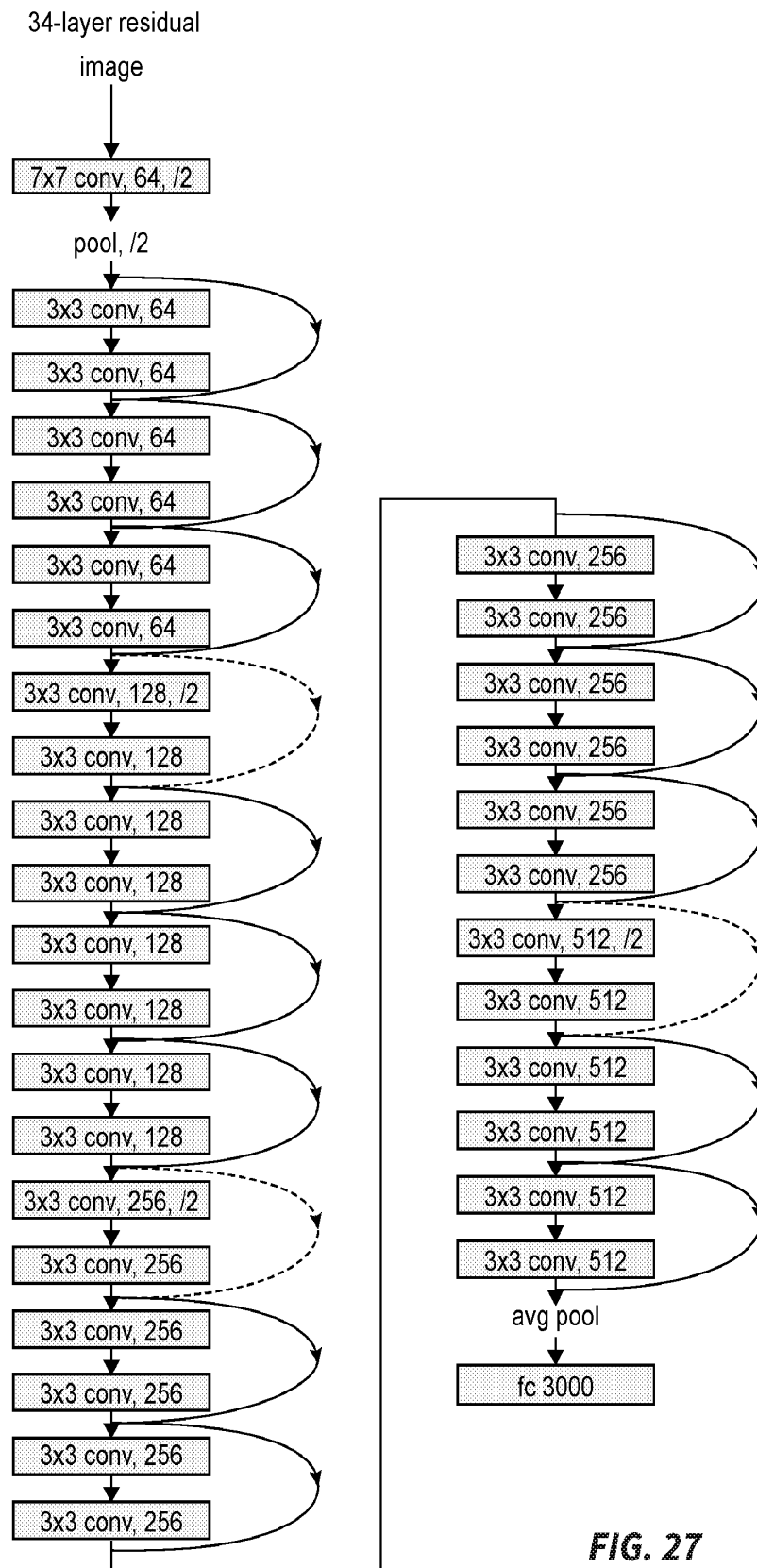
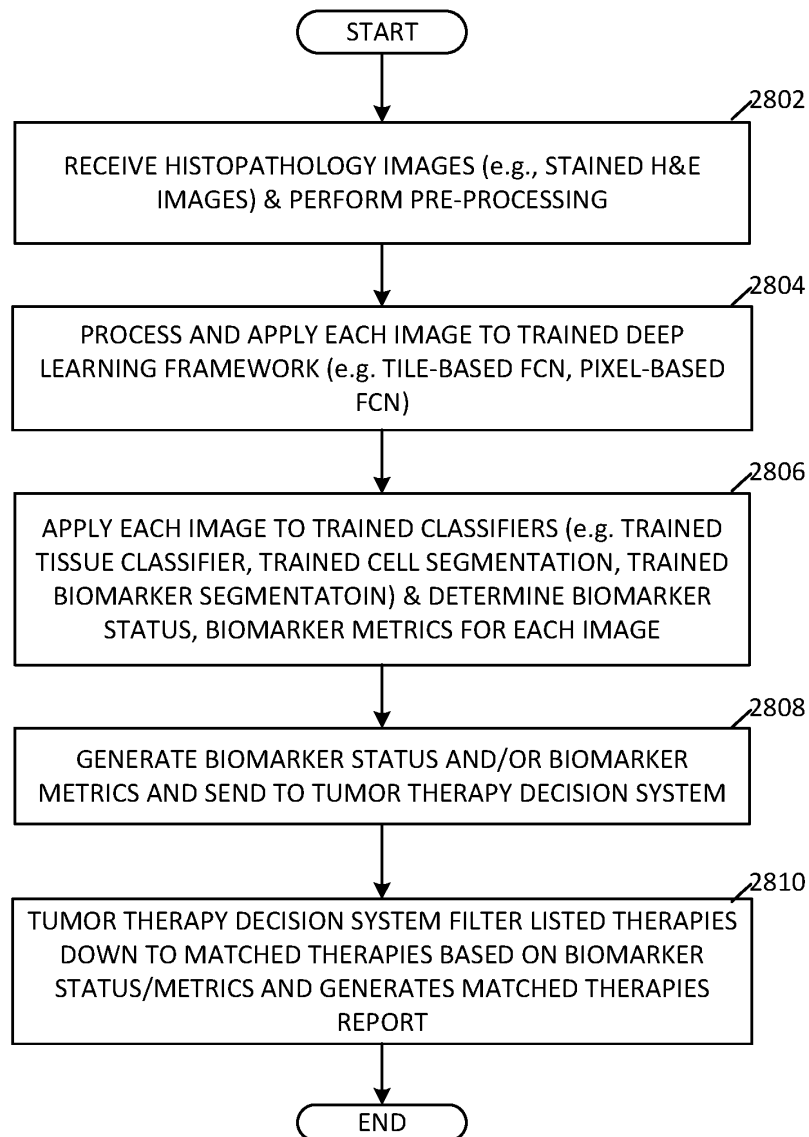


FIG. 27

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2800**FIG. 28**

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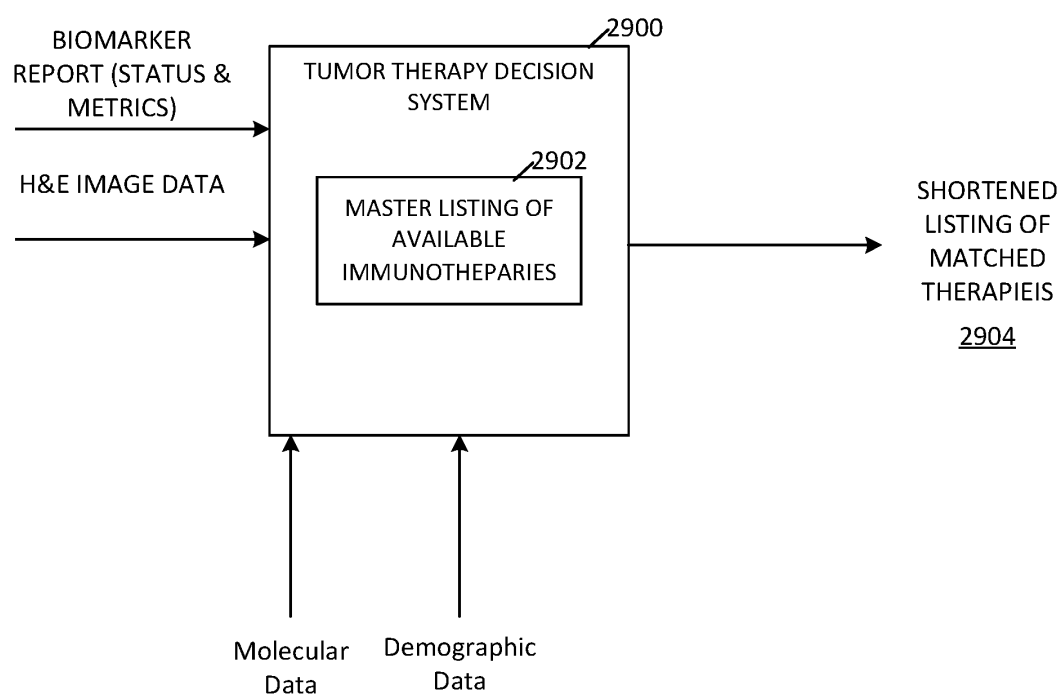
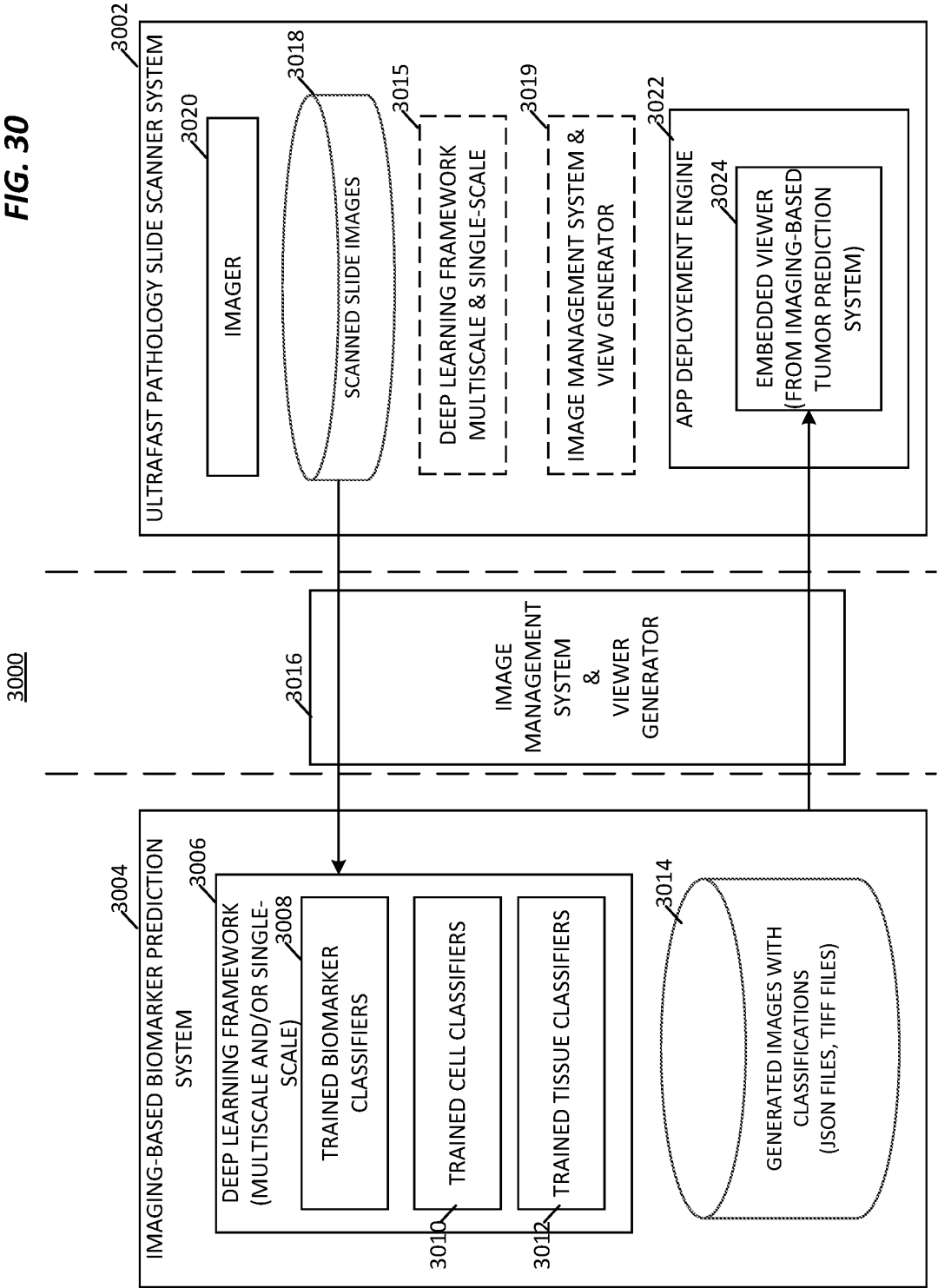
**FIG. 29**

FIG. 30



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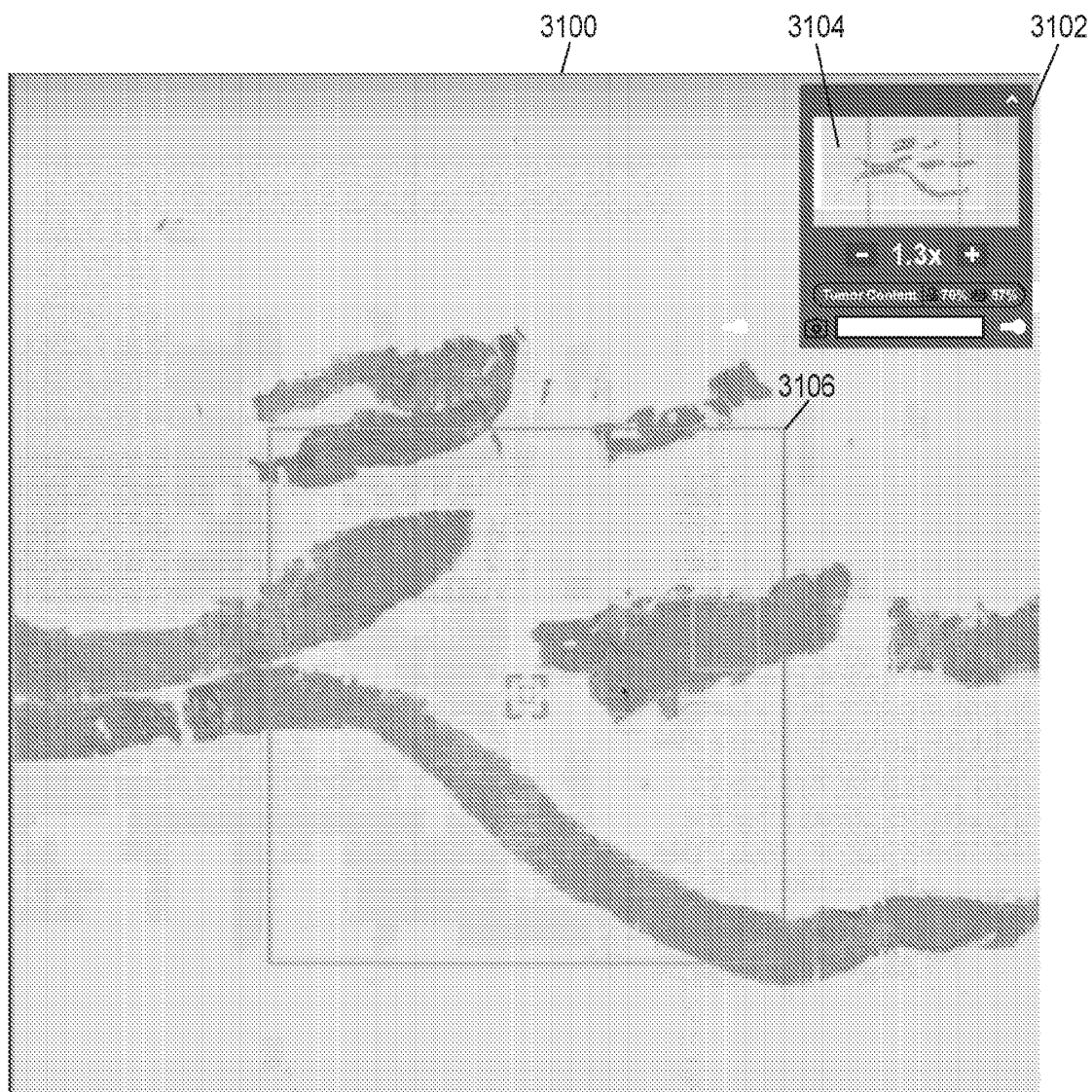


FIG. 31

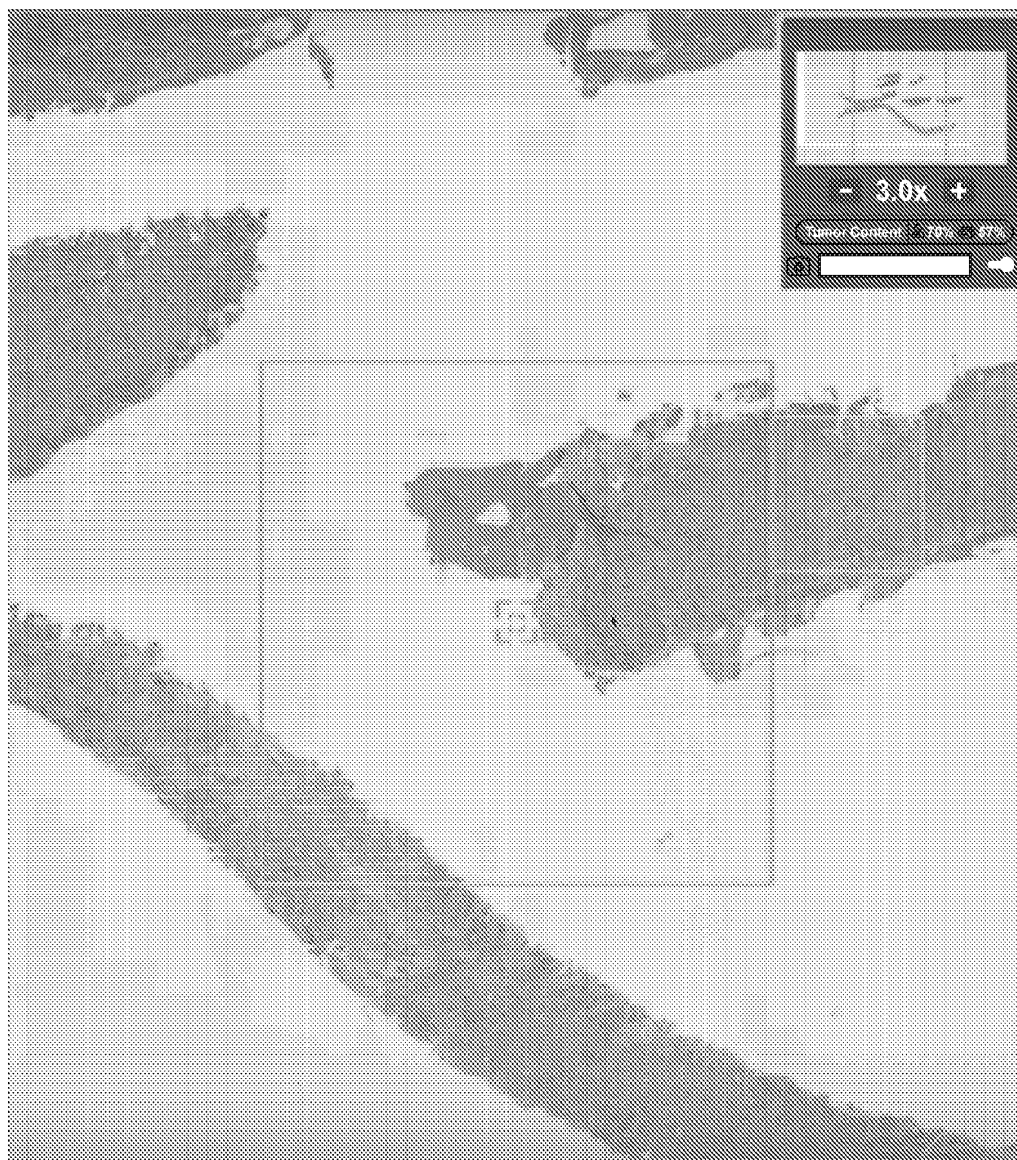


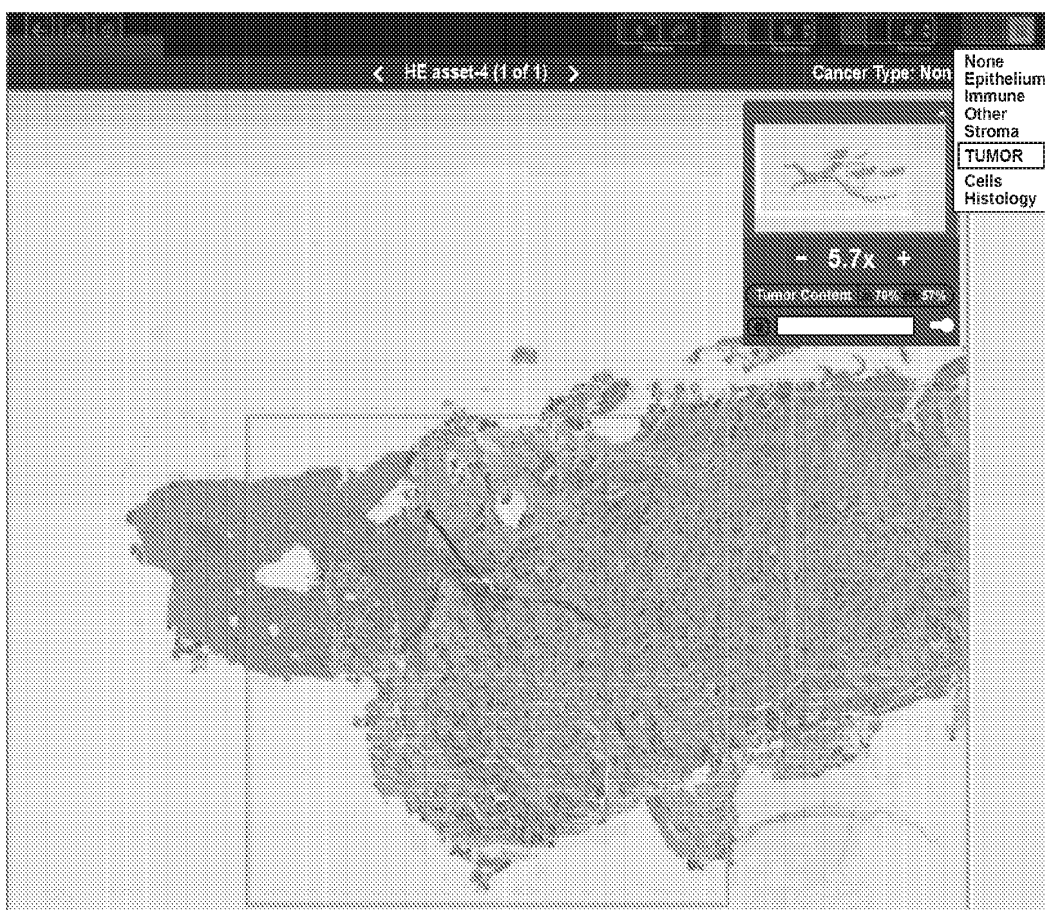
FIG. 32

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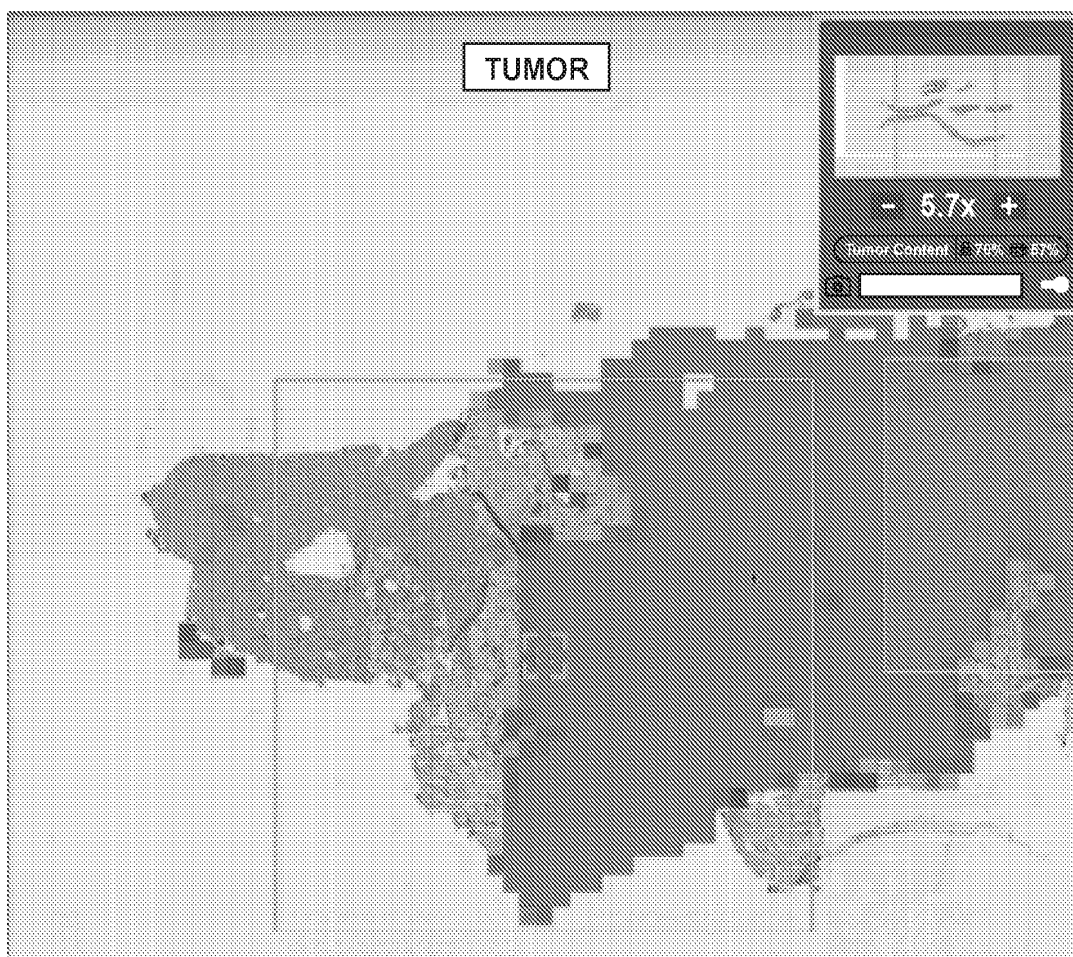


FIG. 33

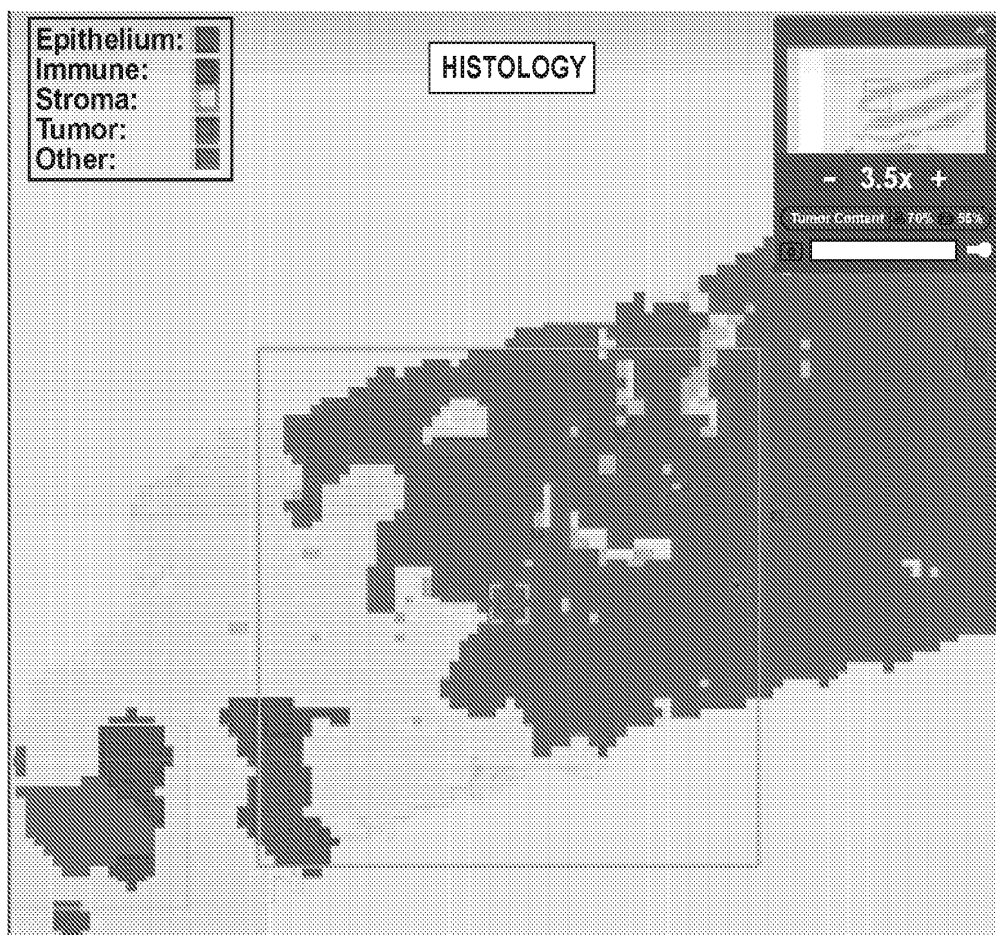
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**FIG. 34**

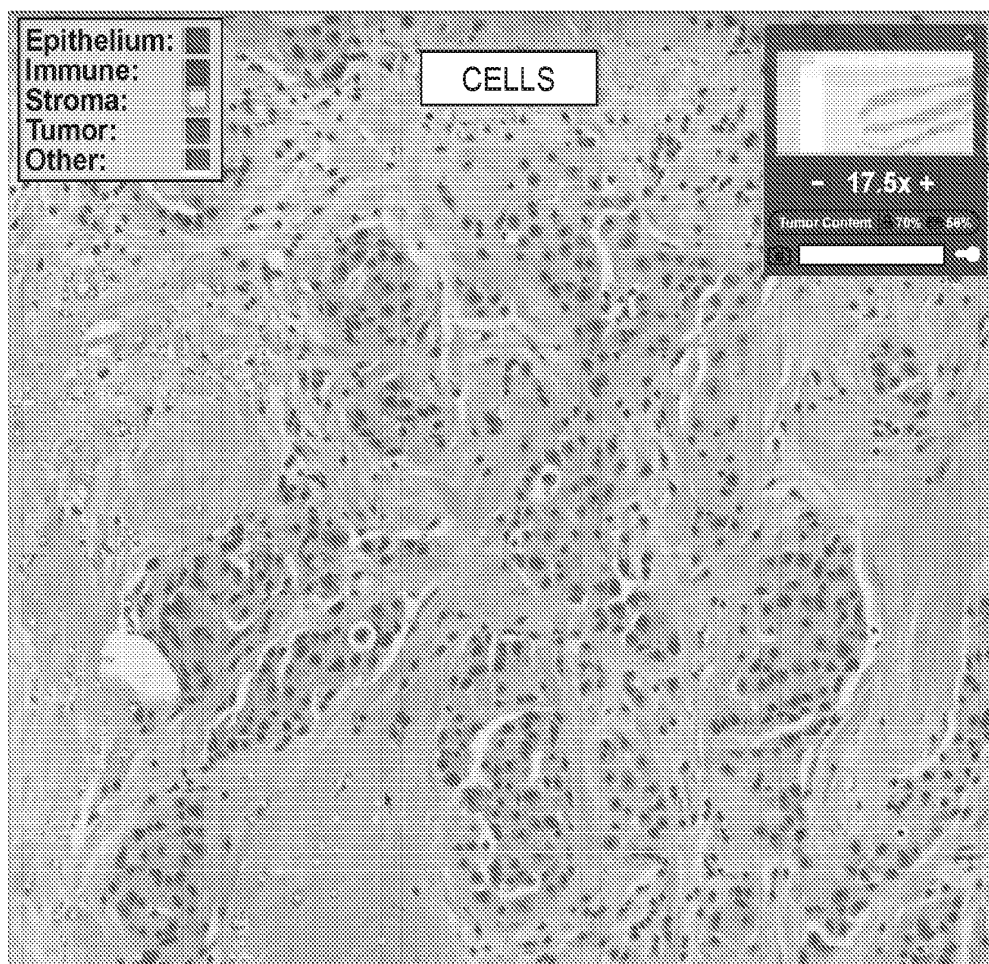
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**FIG. 35**

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**FIG. 36**

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**FIG. 37**

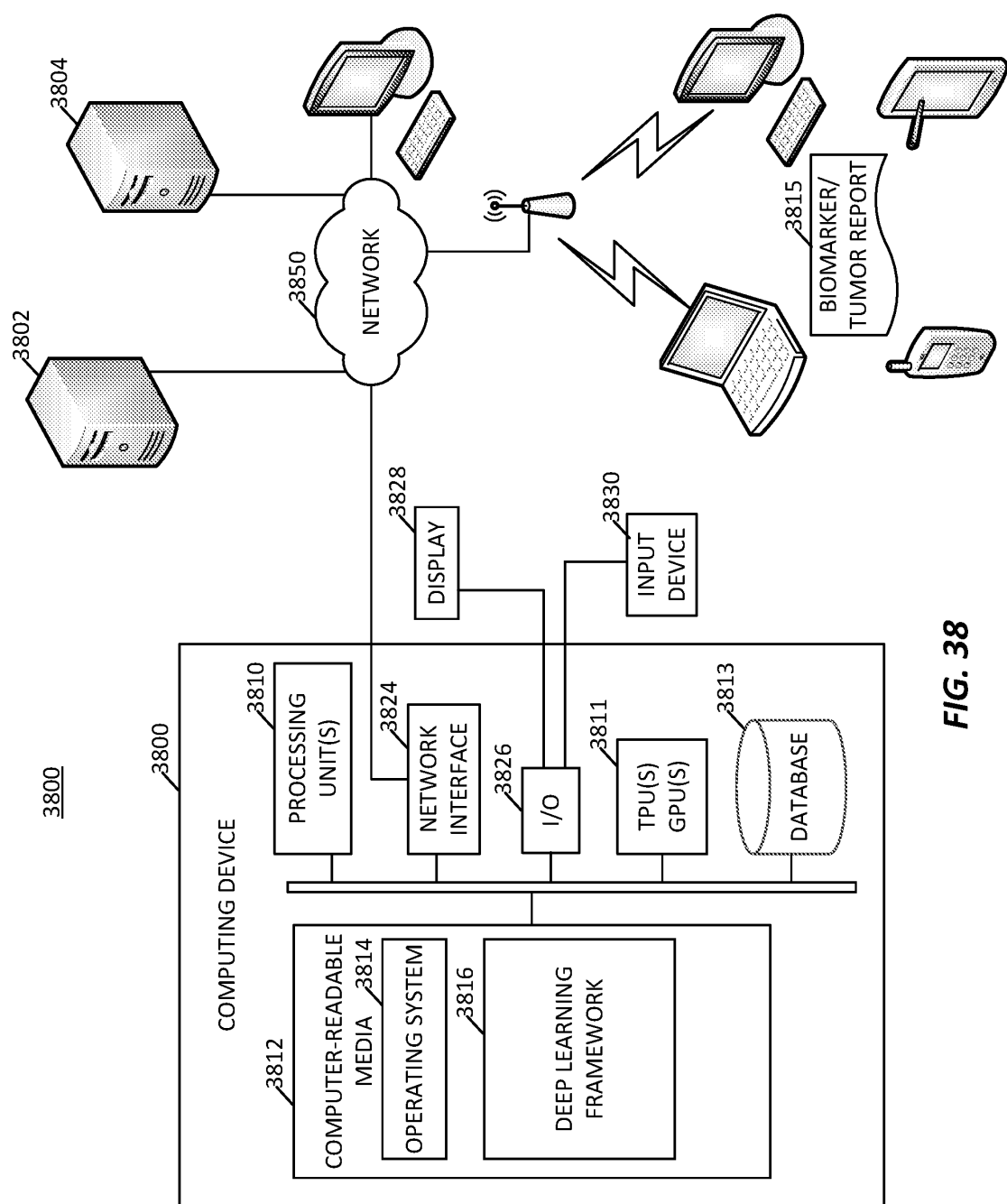


FIG. 38