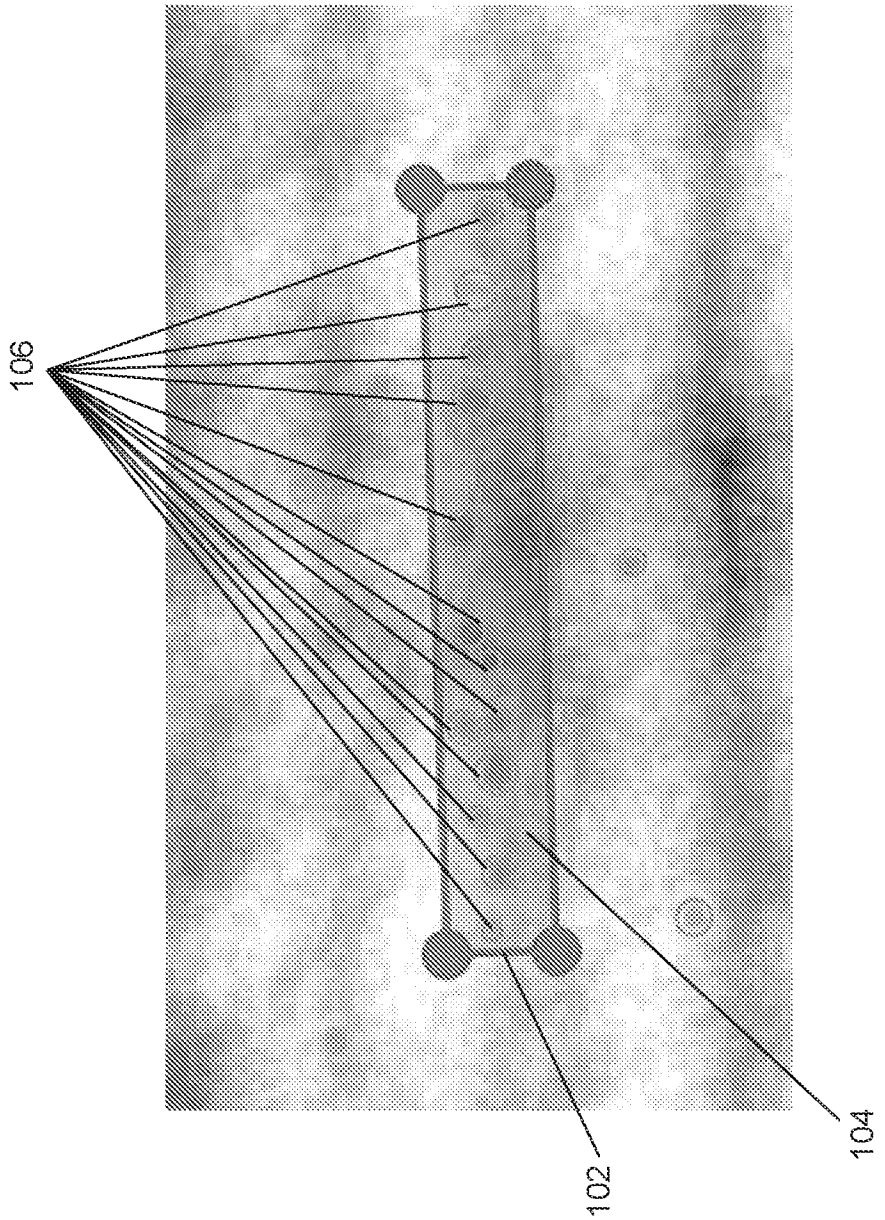


FIG. 1

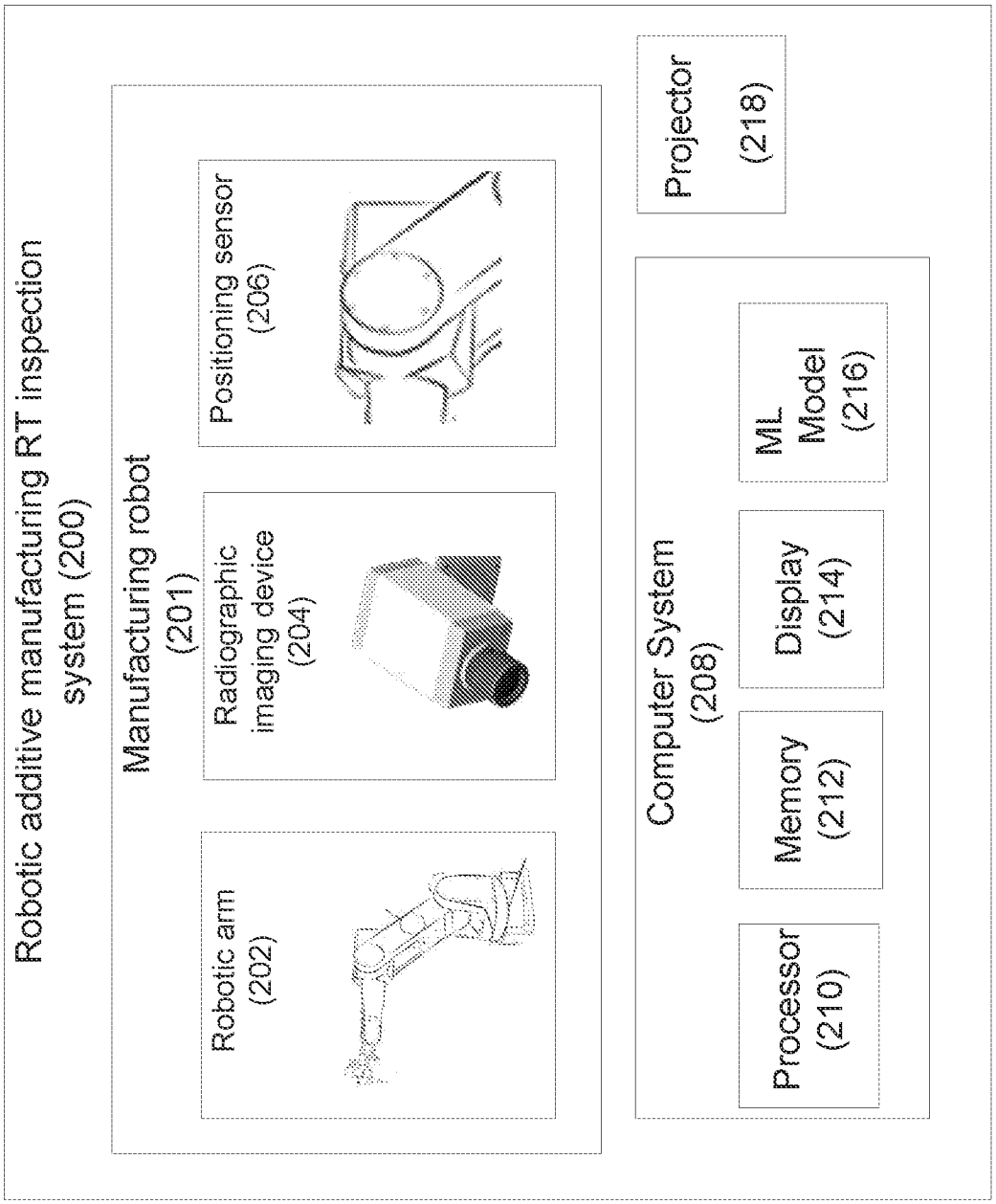

Robotic additive manufacturing RT inspection system (200)
Manufacturing robot (201)
Robotic arm (202)
Radiographic imaging device (204)
Positioning sensor (206)
Computer System (208)
Processor (210)
Memory (212)
Display (214)
ML Model (216)
Projector (218)

FIG. 2

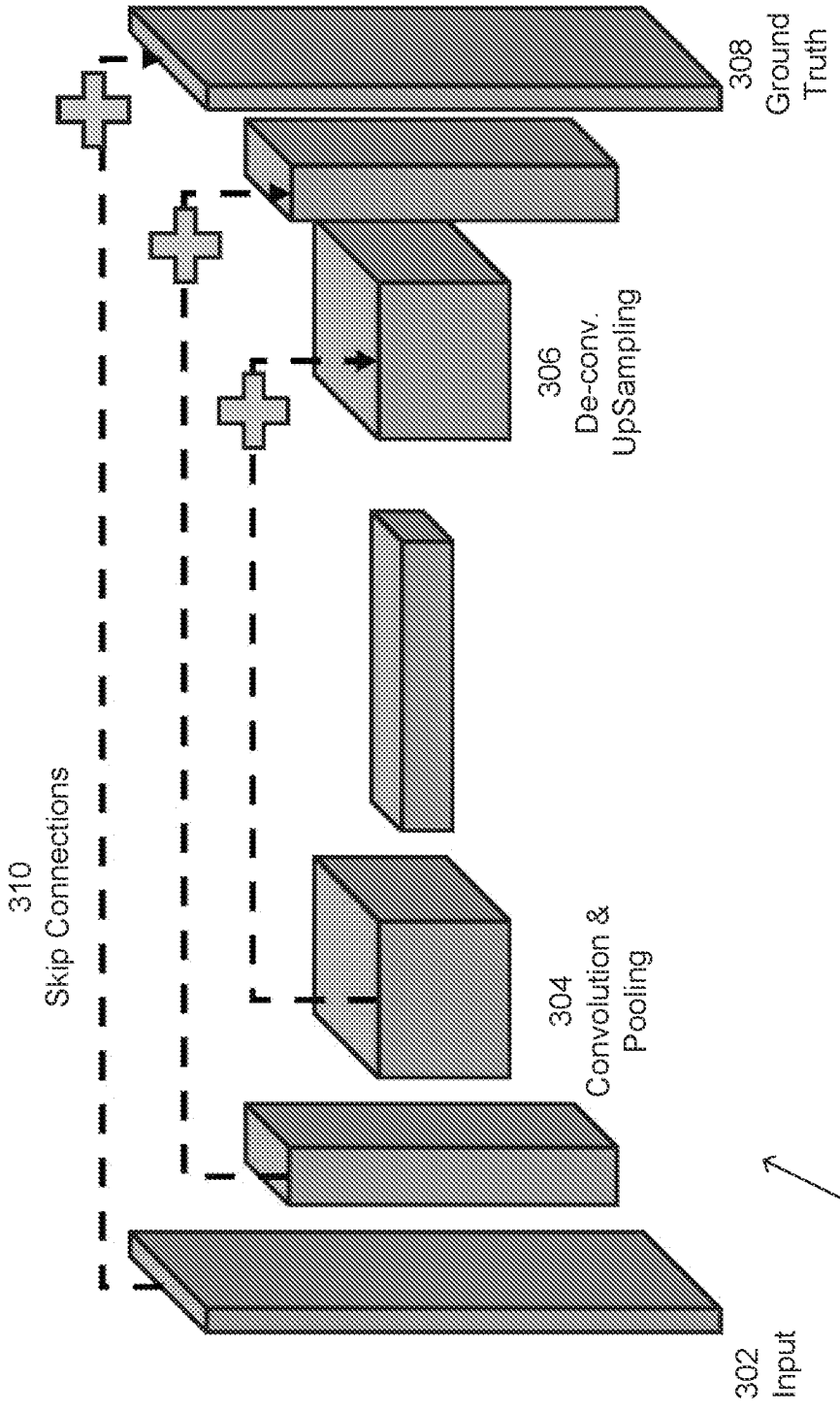

308
Ground
Truth
306
De-conv.
UpSampling
310
Skip Connections
304
Convolution &
Pooling
302
Input
300

FIG. 3

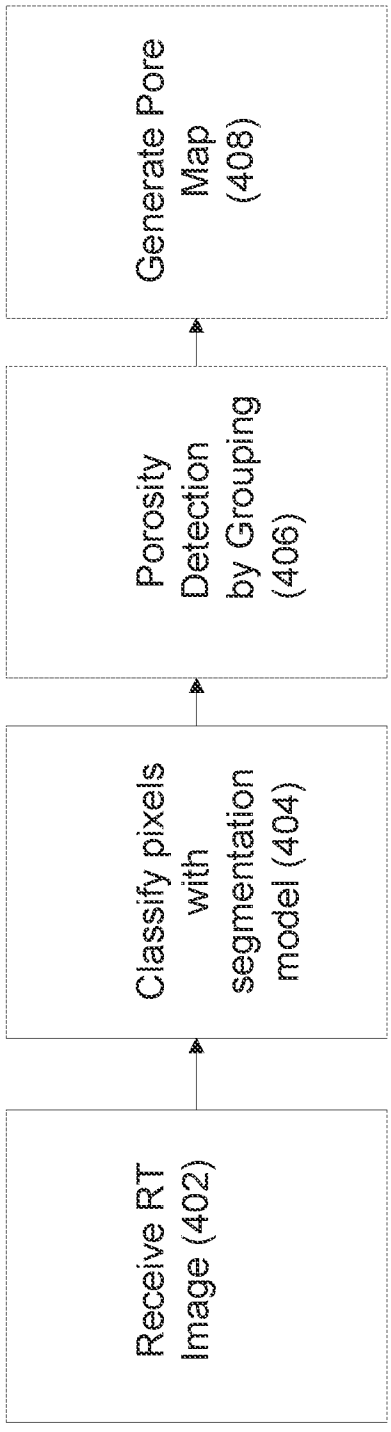

Receive RT Image (402)
Classify pixels with segmentation model (404)
Porosity Detection by Grouping (406)
Generate Pore Map (408)
400

FIG. 4

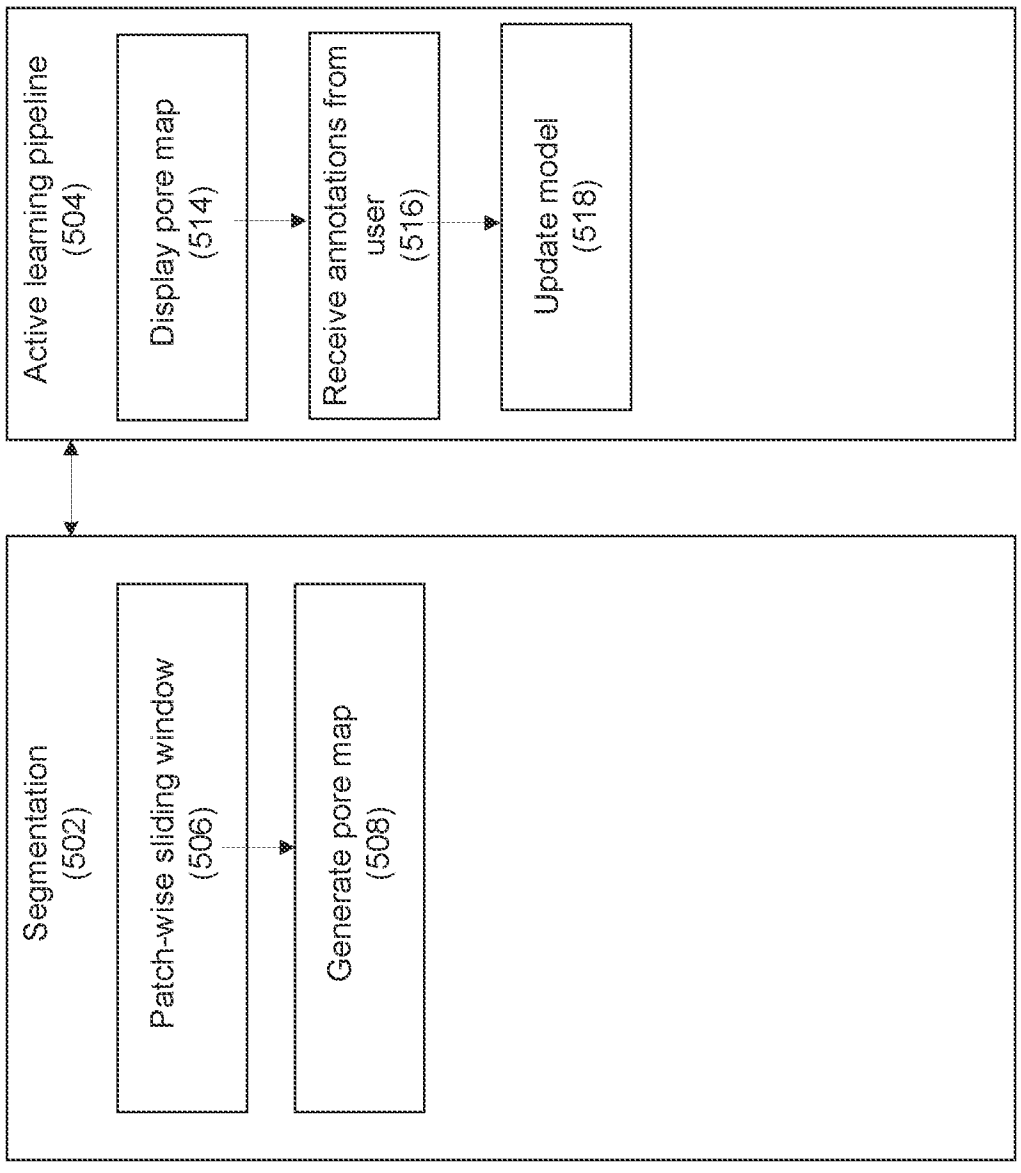

Segmentation
(502)
Patch-wise sliding window
(506)
Generate pore map
(508)
Active learning pipeline
(504)
Display pore map
(514)
Receive annotations from user
(516)
Update model
(518)
500

FIG. 5

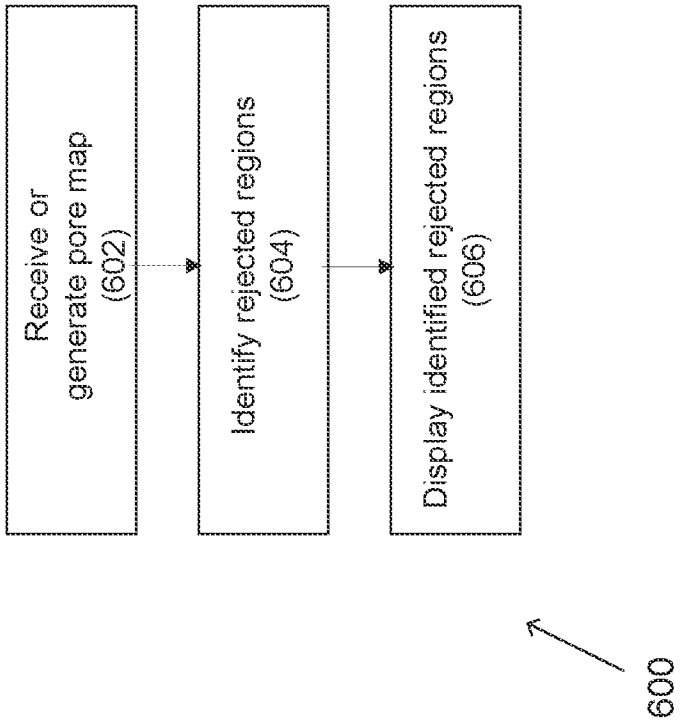

Receive or generate pore map (602)
Identify rejected regions (604)
Display identified rejected regions (606)
600

FIG. 6