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(54) Title: APPARATUS, SYSTEM, AND METHOD FOR GENERATING AND SYNTHESIZING IMAGE DATA FOR EVENT DETECTION

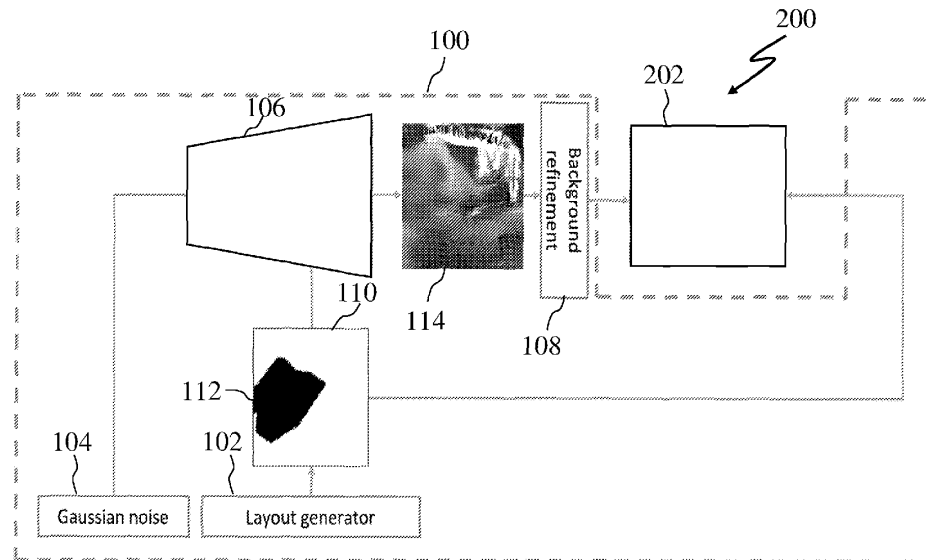


FIG. 2

(57) Abstract: Aspects concern an apparatus for generating and synthesizing image data for event detection, the apparatus comprising at least one processor, the at least one processor configured to: generate a random noise feature, the random noise feature configured to provide a random variation to a first image data and a second image data; synthesize the first image data with the random noise feature, the first image data comprising at least one characteristic feature of an event; generate the second image data, the second image data comprising the event and a background associated with the event; combine the synthesized first image data and the synthesized second image data to form a pair of synthesized image data; wherein the apparatus comprises an artificial intelligence-based image generator module, the artificial intelligence-based image generator module configured to receive the first image data and the random noise feature as inputs to synthesize the second image as output.

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