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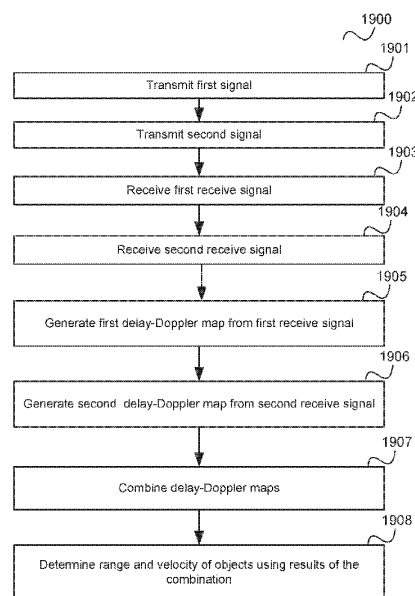


FIG 19

(57) Abstract: According to one embodiment, a radar device is provided comprising a transmitter configured to transmit a first transmit signal and, after the first, a second transmit signal, wherein the first transmit signal comprises at least a part of a preamble of a communication packet, and a radar processor configured to convolve a first receive signal with the first transmit signal and to generate a first delay-Doppler map from the result of the convolution, convolve a second receive signal with the second transmit signal and to generate a second delay-Doppler map from the result of the convolution, combine the first with the second delay-Doppler map by taking, for each delay-Doppler map bin, the minimum of the value of the first delay-Doppler map and the value of the second delay-Doppler map and determine the range and velocity of one or more objects from the result of the combination.

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