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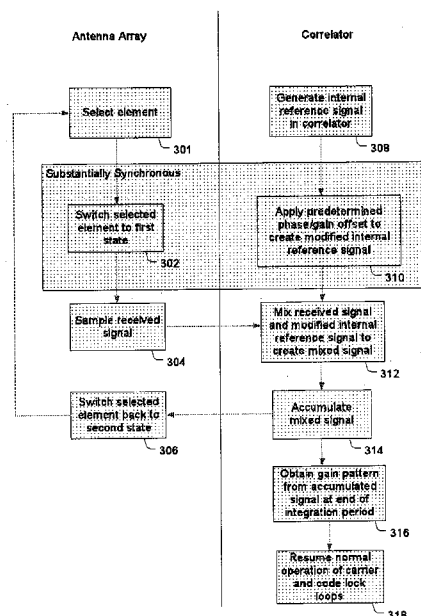


Figure 3

(57) Abstract: A device for forming a beam of an antenna array, the device including: an antenna array having a plurality of spatially distributed elements; a processor for selectively switching said elements between first and second states wherein, in said first state, said elements are configured to receive an incoming signal; and a receiver operatively associated with said antenna array and said processor for generating a reference array signal, mixing said incoming signal with a modified reference signal to generate a mixed signal and summing the mixed signal over a predetermined period to generate an accumulated signal, wherein said reference signal is modified prior to being mixed with said received signal such that said accumulated signal is indicative of the direction and magnitude of the beam of the antenna array.