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(54) Title: ANTENNA SYSTEM AND RADAR SYSTEM INCORPORATING THE SAME

Fig.1.

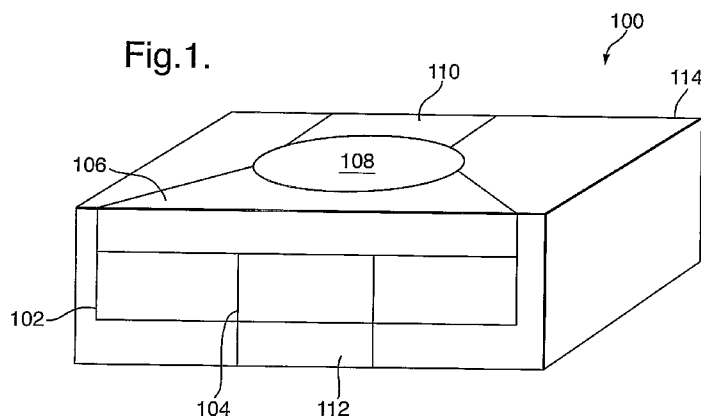
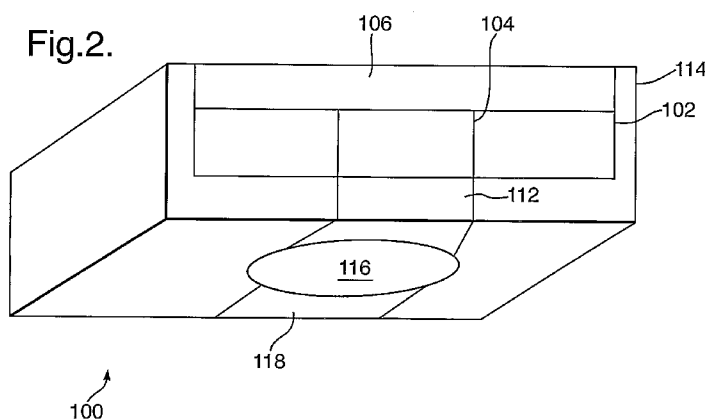


Fig.2.



(57) Abstract: An antenna system (100) comprising an array (102) of antenna elements, the array comprising a plurality (104) of groups of antenna elements wherein each group comprises one or more antenna elements arranged in series, and wherein the system further comprises first phase-control means (106, 108, 110) for performing the function of introducing respective phase-shifts to transmitted or received signals passed to or received from each of said groups to provide beamforming and second phase-control means (112, 116, 118) for performing said function with respect to a sub-set of said groups. An antenna system of the invention allows two radar beam patterns having different spatial characteristics to be generated using a single antenna system. The invention also provides a radar system incorporating an antenna system of the invention.



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