

ABSTRACT

ADAPTIVE CHANNEL FORMING PROCESSING FOR ACTIVE SONAR

The subject of the invention is a method making it possible to form adaptive reception channels for a system comprising an antenna formed from a plurality of sensors.

The method according to the invention consists firstly in grouping the sensors in a given arrangement, so as to construct N sub-antennas, the phase centers of which are separated from one another by a distance less than the correlation length of the noise, or of the nuisance received. It secondly consists in forming, for each sub-antenna, M primary reception channels in given directions. It finally consists, in a third step, in forming, by adaptive processing, M secondary reception channels. Each of the secondary channels, pointing in a direction m , is formed from the N primary reception channels pointing in this same direction m and formed for each of the N sub-antennas.

Figure 1



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