

ABSTRACT

The present invention concerns a frequency modulated pulse radar based on modulation ramps.

5 The radar analyses the range profile of a target from a train of N pulses transmitted to this target, the signal of each pulse being frequency modulated according to a ramp (21, 22, 23), the ramps being frequency-shifted from one pulse to another. Each pulse signal reflected by the target is demodulated by its corresponding ramp then sampled. The range analysis is
10 carried out by spectral analysis of the signal represented by the series of samples obtained by concatenation of the N sample signals.

The invention particularly applies to improve the range resolution of such radar.

15 Figure 2.

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