

Licensing opportunity

Verifying movement of an object

Overview

The patent applications cover a Dstl invention relating to an improved method and apparatus for determining whether an object is moving. Due to the Doppler effect, both the frequency and the chip rate of a reflected radar signal change as a result of a reflection from a moving target. The invention works by comparing properties associated with the frequency and chip rate of a transmitted radar signal with properties associated with frequency and chip rate of the radar signal when reflected from an object of interest.

Key benefits

Conventional approaches to measuring object movement using radar exploit the Doppler effect which results in a predictable change in the frequency of a reflected radar wave based on the relative motion between the target and the radar receiver. In contrast, the method of the invention measures the change of properties associated with both the frequency and also the chip rate of a radar signal reflected from an object of interest in order to provide a more robust system that is less prone to error and provides a higher degree of confidence.

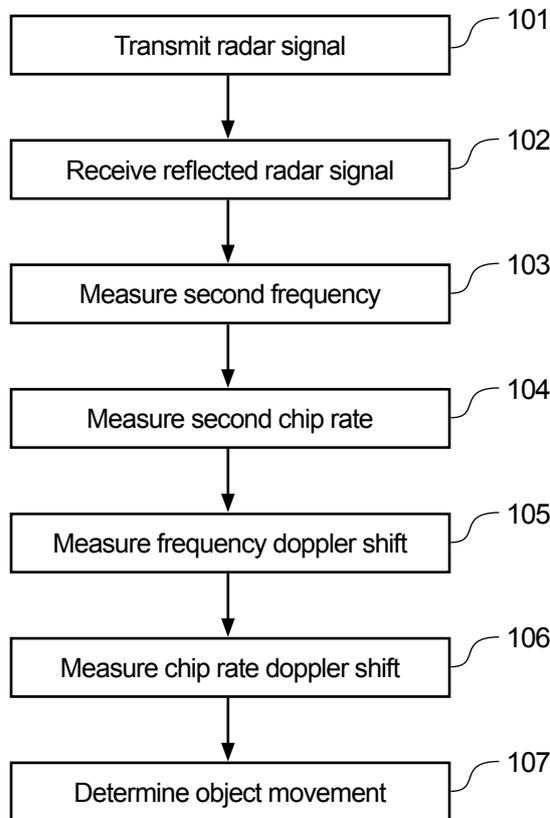
Applications

The invention can be used to verify the movement or measured speed of a target object and therefore has potential application within a number of different fields. For example, the invention may be applicable in the management of sporting events.

IP status

GB patent application filed 30 March 2015; GB 1505386.1

European patent application filed 31 March 2015; EP 15714599.6



Commercial opportunity

This patent application is available for licensing under the Easy Access IP scheme. Some investment may be needed to further test and develop the technology. However, if successfully developed, this intellectual property could be leveraged in a number of different fields.

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