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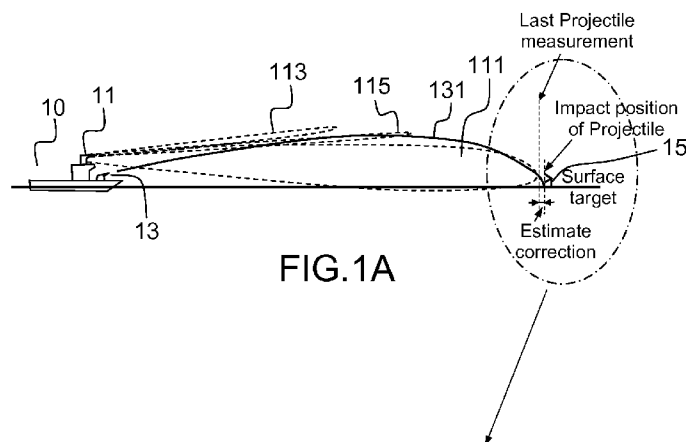
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(54) **Title:** METHOD FOR DETERMINING THE IMPACT POINT OF A PROJECTILE FIRED AT A TARGET ABOVE SEA SURFACE, AND RADAR SYSTEM IMPLEMENTING SUCH METHOD



(57) **Abstract:** There is disclosed a method for determining the impact point of a projectile fired at a target (15) tracked by use of a radar antenna (11) through a dedicated antenna beam, the method being characterized in that it comprises at least a step of measuring the range and bearing of the projectile based upon the use of said radar antenna (11) and said dedicated antenna beam, a step of Doppler filtering distinguishing the projectile measurements from the tracked target (15) and sea clutter measurements, and a step of determining the projectile trajectory (131) from a plurality of range and bearing measurements performed at successive instants of time (t), and a step of determining the impact point of the determined projectile based upon the projectile trajectory (131). The current invention can be applied to splash spot location prediction and miss distance indication.

