

Title (en)
METHOD FOR DETERMINATION OF A FIRE GUIDANCE SOLUTION

Title (de)
VERFAHREN ZUR ERMITTLUNG EINER FEUERLEITLÖSUNG

Title (fr)
PROCEDE DE DETERMINATION D'UNE SOLUTION DE CONDUITE DE TIR

Publication
EP 1848953 B1 20080716 (DE)

Application
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Priority
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Abstract (en)
[origin: US7815115B2] A method of determining a firing guidance solution when relative movement exists between a projectile-firing weapon and a target object that is to be hit, including the steps of adjusting the weapon in azimuth angle and elevation angle, by means of a movement differential equation solution method determining a projectile point of impact and flight times at prescribed azimuth and elevation angle values in view of the ammunition used and external influences, varying the azimuth and elevation angles, as input parameters of the movement differential equation solution method, until a firing guidance solution is found, taking into consideration the weapon and target object speeds, providing a function $J(\alpha, \epsilon)$ that assumes a particular value J^* when the azimuth and elevation angles represent a firing guidance solution, and selectively iteratively varying the azimuth and elevation angles using mathematical processes such that the particular value J^* is found.

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