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(71) Applicant: **BAE SYSTEMS BOFORS AB** [SE/SE]; S-691 80 Karlskoga (SE).

(72) Inventor: **WÄLLBERG, Kjell**; Knutsbol 806, SE-693 91 Degerfors (SE).

(74) Agent: **OLSSON, Fredrik**; Nobeli Business Support AB, Patents and Trademarks, S-691 80 Karlskoga (SE).

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(54) Title: METHOD OF FIRE CONTROL FOR GUN-BASED ANTI-AIRCRAFT DEFENCE

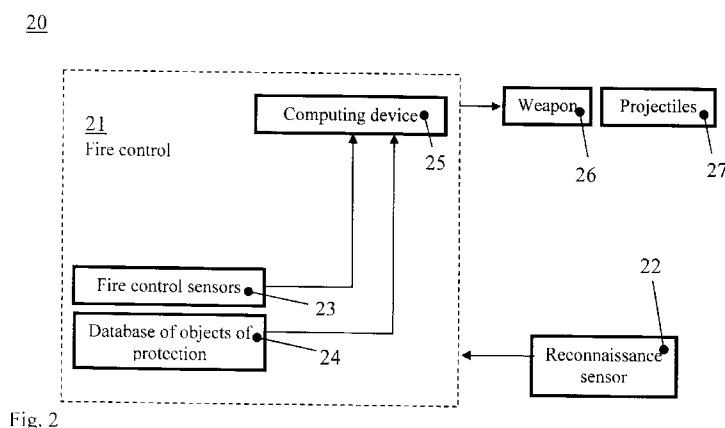


Fig. 2

(57) Abstract: The invention consists of a method of fire control against aerial targets on their way towards an object of protection where the position of the object of protection is known, comprising the following method steps: measuring the position of the aerial target, estimating the position of the aerial target, estimating the velocity of the aerial target, applying a model of the aerial target's guidance law, calculating the accelerations the aerial target must apply in order to hit the object of protection, predicting the future trajectory of the aerial target based on the position of the object of protection, the estimated position of the aerial target, the estimated velocity of the aerial target, the calculated acceleration of the aerial target, calculating points of aim along the predicted trajectory. Furthermore, the invention consists of a fire control system for fire control against aerial targets comprising at least one sensor for measuring the position of the aerial target as a function of time.