

Invention relates to armored technique. The substance of the invention is that the system for tank fire control has day and night sights, ballistic calculator, gun with drive, sensor of the gun position, sensor of the angle of vertical aiming. Day sight comprises of gyrostabilizer and kinematically connected to it main mirror of the sight and sensor of the angle of vertical aiming. Sensor of the angle of vertical aiming is connected to the input of ballistic calculator, output of which is connected to the drive of the gun. Gun is kinematically connected to the sensor of the angle of vertical aiming and sensor of the gun position. Night sight comprises of main mirror of the sight and kinematically connected to it sensor of the mirror position, drive of the main mirror, made as moment motor, and sensor of velocity, installed together with the moment motor on the axis of vibration of the main mirror. Sensor of the mirror position is connected to the sensor of the gun position. Moment motor is connected is connected to the output of the block of the drive control. First input of the control block is connected to the sensor of the angle of vertical aiming, second input of the control block is connected to the sensor of the gun position, and the third input is connected to the sensor of velocity. Control block for moment motor of the main mirror of night sight is made as connected in sequence first integrator, phase-sensitive rectifier, optimal position controller, second integrator, power amplifier, current sensor and current controller. Output of the current controller is connected to the second input of the second integrator. First and second inputs of the first integrator are, respectively, first and second inputs of the control block. Third input of the second integrator is the third input of the control block, and the output of the power amplifier is the output of control block. Technical result: increase of accuracy at fire from tank from motion in conditions of night combat due to taking out from influence on main mirror of night sight additional dynamical actions.