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**Zhang et al.**

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- (54) **INTEGRATED PRECISE PHOTOELECTRIC SIGHTING SYSTEM**
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- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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**F41G 3/06** (2006.01)
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(57) **ABSTRACT**

The present invention relates to the technical field of gun sight, and specifically relates to an integrated precise photoelectric sighting system that facilitates calibration. The invention discloses an integrated precise photoelectric sighting system that facilitates calibration, the system comprises a field-of-view obtaining unit, a range-finding unit, a display unit, and a sighting circuit unit; the sighting system being capable of displaying an optical image obtained by the field-of-view obtaining unit on the display unit, the display unit simultaneous displays optical image and reticle, and reticle is applied to sight the target in the optical image; the precise photoelectric sighting system applies the sighting circuit unit and the range-finding unit to perform precise prediction to the impact point, which facilitates calibration and shooting for user. The invention displays the sighted image via the display unit, to thereby realize dual-eye sighting.

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**21 Claims, 13 Drawing Sheets**

