

Title (en)

Method for determining the rotation speed of the aiming line with a strapped down seeker head

Title (de)

Verfahren zur Bestimmung der Sichtliniendrehraten mit einem starren Suchkopf

Title (fr)

Procédé pour la détermination de la vitesse de rotation d'une ligne de visée à l'aide d'une autodirecteur fixé rigide

Publication

**EP 0653600 B2 20020102 (DE)**

Application

**EP 94116112 A 19941012**

Priority

DE 4339187 A 19931116

Abstract (en)

[origin: US5669579A] A method for determining the rates of turn of the missile/target line of sight with a seeker head rigidly mounted on the missile, characterized in that the azimuth and elevation deviation angles (  $\psi_{sm}$  and  $\theta_{sm}$  ) of the target measured with the rigidly mounted seeker head (2) in the missile-fixed coordinate system (  $s_1$ ,  $S_2$ ,  $s_3$  ) are transformed to the azimuth and elevation deviation angles (  $\psi_v$  and  $\theta_v$  ) of the target based on the coordinate system (  $v_1$ ,  $v_2$ ,  $v_3$  ) of a virtual, gimbal mounted and gyrostabilized seeker head (2v) that tracks the missile/target line of sight (SL) by rotation with the rates of turn (  $p_v$ ,  $q_v$ ,  $r_v$  ) about its three axes (  $v_1$ ,  $v_2$ ,  $v_3$  ).

IPC 1-7

**F41G 7/22**

IPC 8 full level

**F41G 7/22** (2006.01)

CPC (source: EP US)

**F41G 7/22** (2013.01 - EP US)

Citation (opposition)

Opponent :

- DE 3436839 A1 19930708 - SECR DEFENCE BRIT [GB]
- CH 565988 A5 19750829 - BODENSEEWERK GERAETETECH
- DE 3233612 A1 19840315 - BODENSEEWERK GERAETETECH [DE]
- AGARD Conference Proceedings No.292, "Guidance and Control Aspects of Tactical Air-Launched Missiles"

Cited by

EP0924490A1; CN107270904A; GB2304178A; GB2304178B; US6179246B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI NL SE

DOCDB simple family (publication)

**US 5669579 A 19970923**; AT E137857 T1 19960515; CA 2135362 A1 19950517; DE 4339187 C1 19950413; DE 59400264 D1 19960613; EP 0653600 A1 19950517; EP 0653600 B1 19960508; EP 0653600 B2 20020102

DOCDB simple family (application)

**US 57038295 A 19951211**; AT 94116112 T 19941012; CA 2135362 A 19941108; DE 4339187 A 19931116; DE 59400264 T 19941012; EP 94116112 A 19941012