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Title: AN ARTILLERY SURVEYING DEVICE

Abstract: The present invention relates to a novel artillery surveying device which performs the duties of creating a common coordinate system in the battlefield, determining the points which provide very precise location information, determining the necessary location and direction angles for the sensors and systems, determining the location and direction angles of the weapons system or specialized mission tools, essentially comprising; a sensitive plate (2), a base (3), two arms (4) which are present at the sides of the base (3), which extend in the vertical direction, and to which the sensitive plate (2) is connected, one handle (5) which are present on the arms (4), connection interface detail (6) and shaft (14) which are used for mounting the base (3) of the surveying device (1) to the mounting interface (15), mounting interface (15) which enables the surveying device (1) to be placed on various platforms and/or vehicles, an optical system (7) which enables aiming to the target, a distance meter (9) which enables measuring of the distance to the target, A GPS antenna (10) which enables the signals that are sent by the GPS satellites to be received, an inertial navigation system (11) which enables the calculation of the location, direction angle and the angle with respect to the earth plane, a control unit (12) which is adapted to run the surveying algorithms using the information coming from the distance meter (9) and the inertial navigation system (11).

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
F41G G01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>Y</td>
<td>WO 99/60335 AI (MEASUREMENT DEVICES LTD [GB]; BALL STEPHEN LESLIE [GB]) 25 November 1999 (1999-11-25) page 9, line 24 - page 13, paragraph 24; figures 2,3</td>
<td>2,3,5-7</td>
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See patent family annex.

Date of the actual completion of the international search
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Date of mailing of the international search report
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<tr>
<td></td>
<td></td>
<td>US 2012059575 A1</td>
<td>08-03-2012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JP 2008032385 A</td>
<td>14-02-2008</td>
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<tr>
<td></td>
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<td>US 2007127008 A1</td>
<td>07-06-2007</td>
</tr>
<tr>
<td>WO 9960335 A1</td>
<td>25-11-1999</td>
<td>AU 3937499 A</td>
<td>06-12-1999</td>
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<tr>
<td></td>
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<td>WO 9960335 A1</td>
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