METHODS AND SYSTEMS FOR CREATING MAPS WITH RADAR-OPTICAL IMAGING FUSION

A method of mapping a space using a combination of radar scanning and optical imaging. The method includes steps of providing a measurement vehicle having a radar system and an image acquisition system attached thereto; aligning a field of view of the radar system with a field of view of the image acquisition system; obtaining at least one radar scan of a space using the radar scanning system; obtaining at least one image of the space using the image acquisition system; and combining the at least one radar scan with the at least one image to construct a map of the space.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

INV. G01S13/86 G01S13/89 G03B19/00 G01C21/28

ADD.

According to International Patent Classification (IPC) into both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

G01S G03B G01C

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

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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<th>Relevant to claim No.</th>
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* Further documents are listed in the continuation of Box C. See patent family annex.

*A* document defining the general state of the art which is not considered to be of particular relevance

*B* earlier application or patent but published on or after the international filing date

*L* document which may throw doubts on priority claim(s) one of which is cited to establish the publication date of another application or other special reason (as specified)

*O* document referring to an oral disclosure, use, exhibition or other means

*P* document published prior to the international filing date but later than the priority date claimed

**Date of the actual completion of the international search**

28 June 2013

**Date of mailing of the international search report**

05/07/2013

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Fax: (+31-70) 340-2016

Rudolf, Hans
### DOCUMENTS CONSIDERED TO BE RELEVANT

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