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(54) Title: TOOL AND RIG FOR AUTOMATICALLY ADJUSTING THE LOCATION OF A WORKING MEMBER, AND METHOD OF LOCATING THE TOOL ON MATERIAL AND CUTTING A DESIGN IN A MATERIAL

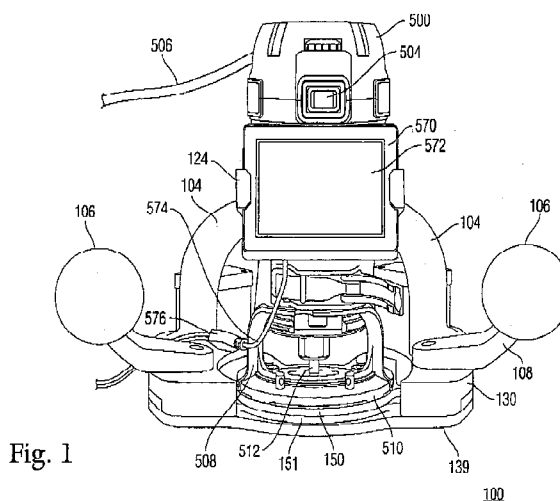


Fig. 1

(57) Abstract: A position correcting system, method and tool for guiding a tool during its use based on its location relative to the material being worked on. Provided is a system and tool which uses its auto correcting technology to precisely rout or cut material. The invention provides a camera which is used to track the visual features of the surface of the material being cut to build a map and locate an image on that map used to reference the location of the tool for auto-correction of the cutting path.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/038910**A. CLASSIFICATION OF SUBJECT MATTER****B23B 45/14(2006.01)i, B27C 5/10(2006.01)i, B25F 5/00(2006.01)i**

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)

B23B 45/14; B23B 49/00; B23B 3/00; G06F 15/00; B23B 25/06; G05D 3/00; B23B 7/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: tool, motor, processor, camera, image, map, location

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007-0180962 A1 (BRETSCHNEIDER, JOCHEN et al.) 09 August 2007 See abstract, paragraphs [0029] - [0032] and figure 1.	1-38
A	US 2009-0254211 A1 (MONNIN, JEAN-CHARLES) 08 October 2009 See abstract, paragraphs [0031] - [0036] and figure 2.	1-38
A	US 05095788A A (MATONI, MICHAEL) 17 March 1992 See abstract, claim 1 and figure 1.	1-38
A	US 04552493A A (SCHULTSHICK, ROBERT) 12 November 1985 See abstract, column 1, line 56 - column 4, line 3 and figure 1.	1-38



Further documents are listed in the continuation of Box C.



See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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