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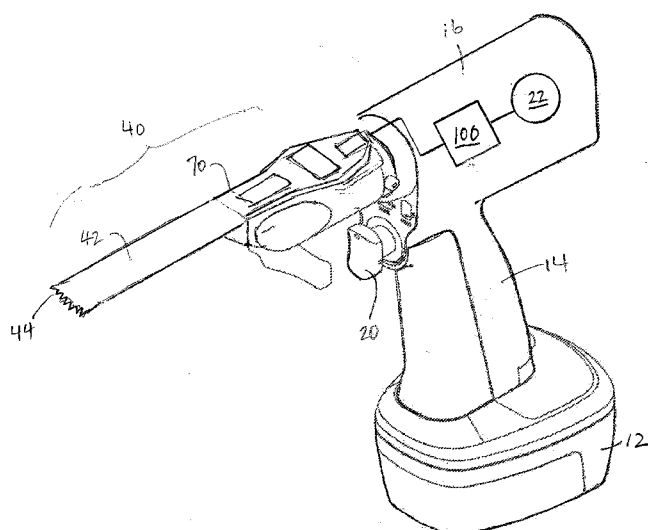


FIG. 1

(57) Abstract: A sagittal saw includes a blade and an actuator configured to drive the blade. The blade includes a first end, a second end opposed to the first end, and a longitudinal axis extending between the first end and second end. The blade first end extends transverse to the longitudinal axis, and its movement defines a blade path. The blade path comprises a closed plane curve consisting of two loops meeting at a node ie, a figure-eight, whereby the blade path crosses over itself. The actuator includes a gear assembly configured to cyclically drive the blade so that the blade path includes multiple impulsive thrusts along the longitudinal axis in each blade path cycle. In addition, the blade cuts the work piece in both a first direction and a second direction in each blade cycle, the second direction opposed to the first direction.

A. CLASSIFICATION OF SUBJECT MATTER***A61B 17/14(2006.01)i, A61B 17/56(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)

A61B 17/14; A61B 17/00; A61B 17/32

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: cutting device, blade, actuator, cyclic closed planer loop, gear, sagittal saw

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0027449 A1 (GUNDLAPALLI, R. V. et al.) 31 January 2008 See abstract; paragraphs [0053]-[0063], [0083], [0084]; claims 1, 12; figures 1-15.	1-38
A	US 2006-0009796 A1 (CARUSILLO, S. et al.) 12 January 2006 See entire document.	1-38
A	US 2007-0016238 A1 (MARIETTA, J.) 18 January 2007 See entire document.	1-38
A	US 2010-0228256 A1 (WALEN, J. G. et al.) 09 September 2010 See entire document.	1-38
A	US 5439472 A (EVANS, J. A. and KALINKA, G. T.) 08 August 1995 See entire document.	1-38



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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