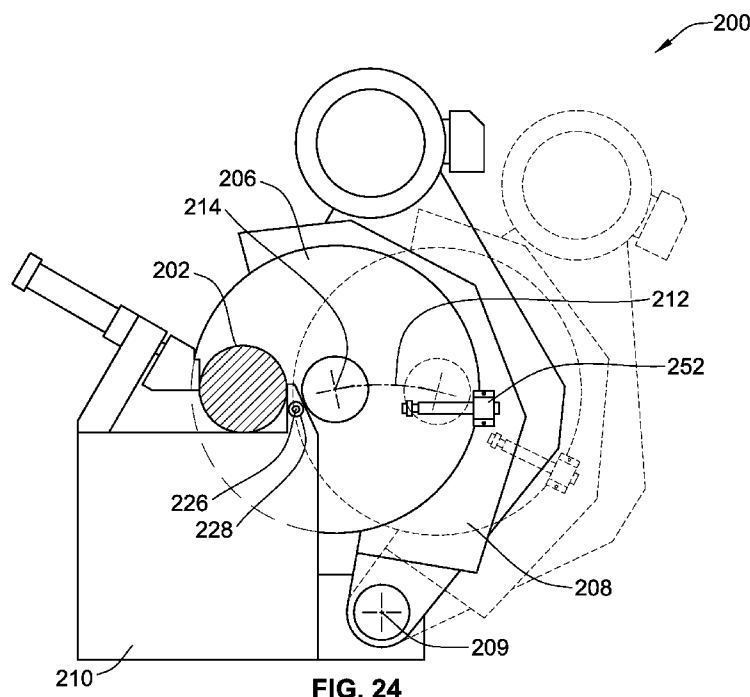




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- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SAW BLADE STABILIZER AND METHOD



(57) Abstract: Stabilization of a circular saw blade is provided, through use of a blade stabilizer mounted adjacent a workpiece in a fixed relationship to the workpiece and having a stabilizer contact element adapted to bear against the circular saw blade and exert a force against the saw blade in a direction substantially perpendicular to a cutting plane of the saw blade at a point on at least one of the blade faces on the working side of the blade, proximate an axis of motion passing through an axis of rotation of the saw blade and the workpiece in the cutting plane, as the circular saw blade and/or the workpiece move relative to one another along the axis of motion. The axis of motion may be linear or curved. Some embodiments include additional blade stabilizers.

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A. CLASSIFICATION OF SUBJECT MATTER***B23D 47/02(2006.01)i, B23D 47/08(2006.01)i, B23D 45/02(2006.01)i, B23D 61/04(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)

B23D 47/02; B27B 33/08; B27B 11/02; B21B 5/00; B27B 5/38; B23D 61/02; B23D 45/00

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: circular, saw, stabilizer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7127978 B2 (STEFAN B. et al.) 31 October 2006 See abstract, claims 1-3, and figures 1-4.	1-40
A	US 04136590A A (KORDYBAN; WILLIAM W. et al.) 30 January 1979 See abstract, claim 1, and figures 1 and 2.	1-40
A	WO 87-05556 A1 (WITTZALL G.) 24 September 1987 See abstract and figures 1 and 2.	1-40
A	US 05213020A A (PLEAU; JULIEN H. et al.) 25 May 1993 See abstract, claims 1, and figures 1 and 2.	1-40



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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