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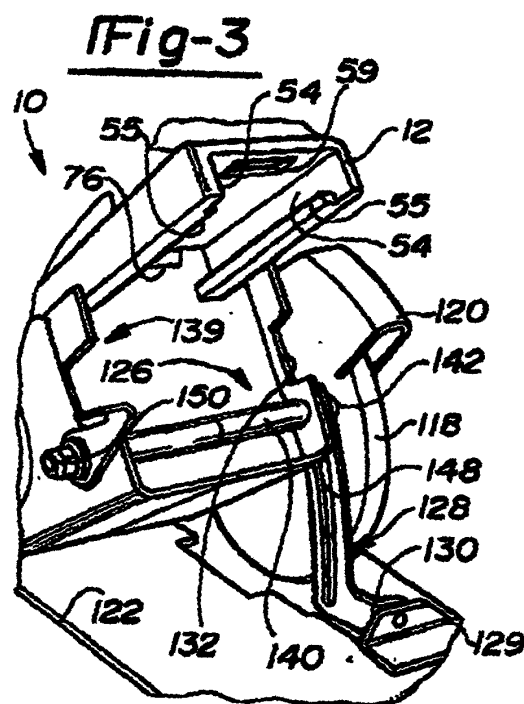
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(54) **Battery powered portable circular saw with depth of cut control**

(57) A battery powered circular saw (10) includes a rechargeable battery (16) removably attached to the housing (12) and an adjustable shoe (122) pivotally attached to a guard assembly for controlling a depth of cut. A locking mechanism (126) for preventing relative movement between the adjustable shoe (122) and the housing (12) includes a depth of cut strap (128) disposed adjacent a first sidewall (132) of the housing (12). A lever (134) is disposed adjacent a second sidewall (136) of the housing (12). A tightening element interconnects the depth of cut strap (128) and the lever (134). The battery powered circular saw (10) additionally includes a handle (110) extending from the housing (12). The handle (110) is disposed substantially parallel to a direction of cut and oriented horizontally above the housing (12). The rechargeable battery (16) includes a pair of laterally spaced apart guide rails (52) which cooperate with the pair of longitudinally extending grooves (54) to permit sliding movement of the rechargeable battery (16) in a direction parallel to the direction of cut.



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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 6356

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05, 30 June 1995 (1995-06-30) -& JP 07 052067 A (MATSUSHITA ELECTRIC WORKS LTD), 28 February 1995 (1995-02-28) * abstract *	7,11-13	
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X	JP 59 140001 A (MATSUSHITA ELECTRIC WORKS LTD) 11 August 1984 (1984-08-11) * figures *	7,10-12	
A		1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
D,Y	US 3 757 194 A (WEBER E ET AL) 4 September 1973 (1973-09-04) * column 3, line 17 - line 33 * * figures 1,3,4 *	8,9	H01M B27B
A	US 4 589 208 A (IHARA SHINJI ET AL) 20 May 1986 (1986-05-20) * column 3, line 26 - line 44 * * column 4, line 8 - line 31 * * column 5, line 41 - line 68 * * figures 4-10 *	1,7	
A	WO 98 25723 A (RYOBI NORTH AMERICA INC) 18 June 1998 (1998-06-18) * page 6, line 14 - line 24 * * figures 1,3 *	14	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 October 2003	Examiner Rijks, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☒ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-6

Battery powered circular saw with adjustable shoe for controlling a depth of cut.

2. Claims: 7-14

Battery powered circular saw with a rechargeable battery pack slideable in a direction perpendicular to the saw blade axis.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 6356

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82