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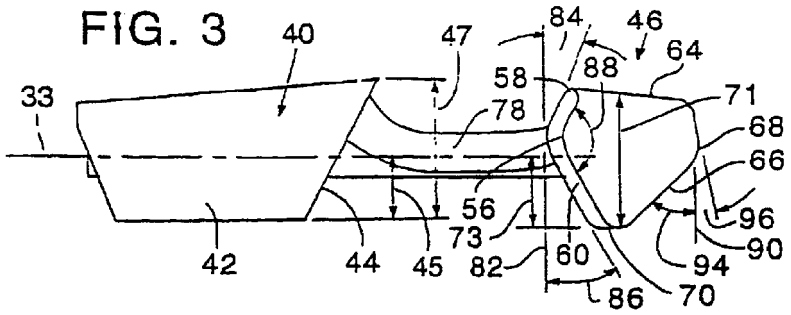
(54) Saw chain cutter with bent over depth gauge

(57) The present invention relates to a cutter (12, 14) for an endless cutter device (10) movable along a path for cutting a kerf in a work piece, said cutter in an upright position comprising:

a body portion (32) disposed in a substantially upright plane (33) and having forward (32b) and rearward (32a) regions,
a cutter portion (40) on the rearward region of the body portion having a forwardly facing cutting edge (44) extending transversely of said plane having a selected width (47) as measured normal to the plane of the body portion and disposed at a selected elevation above the body portion, and
a depth gauge portion (46) on the forward region of the body portion, said depth gauge portion comprising a plate portion (48) bent over at substantially right angle relative to the plane of the body portion and having an upper surface (48a) inclined downwardly from a rearwardly facing rear edge (56) of the plate portion which is disposed at an elevation adjacent but below the elevation of the cutting edge to a forwardly facing front edge (68) of the plate portion which is disposed at a lower elevation, said depth gauge portion having a maximum width region which has a width (71) as measured normal to the plane of the body portion which is at least as great as the width of the cutting edge, as well as a cutting chain comprising said cutter.

FIG. 3



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EUROPEAN SEARCH REPORT

Application Number
EP 99 10 8138

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.6)
D,A	US 4 911 050 A (K. NITSCHMANN) 27 March 1990 (1990-03-27) * column 3, line 5 - line 10 * * column 4, line 1 - line 12 * * figures 1-4 * ---	1,10	B27B33/14
A	US 4 604 932 A (OMARK INDUSTRIES INC) 12 August 1986 (1986-08-12) * column 3, line 35 - line 38 * * column 4, line 38 - line 43 * * figures 5,6 * -----	1,10	

TECHNICAL FIELDS SEARCHED (Int.Cl.6)

B27B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	3 September 1999	Moet, H

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 99 10 8138

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03-09-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4911050 A	27-03-1990	DE 3539334 A	07-05-1987
		CA 1272664 A	14-08-1990
		FR 2589386 A	07-05-1987
		JP 62183301 A	11-08-1987
		SE 8603679 A	07-05-1987
US 4604932 A	12-08-1986	NONE	

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