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(71) Applicant: **Proietti, Manuel**
54033 Carrara (MS) (IT)

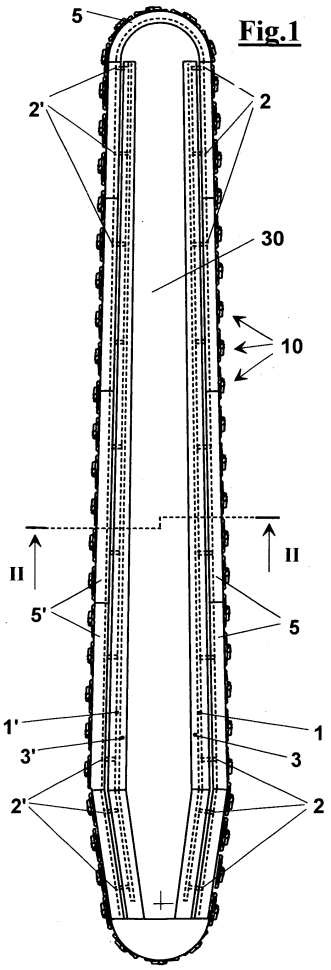
(72) Inventor: **Proietti, Manuel**
54033 Carrara (MS) (IT)

(74) Representative: **Celestino, Marco**
ABM, Agenzia Brevetti & Marchi,
Viale Giovanni Pisano, 31
56123 Pisa (IT)

(54) Chain cutting machine for stone

(57) The invention relates to a chain cutting machine and, in particular, it relates to a lubrication method of the contacting surfaces between the chain links (31) and a guide executed in the blade body, on which said chain slides. The blade body provides at least one lubricant input duct executed in the blade body through a channel that extends parallel to the perimeter of the blade, and a plurality of holes that connect said channel with the sliding zone. According to another aspect, each link of the chain comprises a cutting tip holder (11) that holds at least one cutting tip (12), equipped with engagement means (14), so called brackets, for connecting the cutting tips (12) to said cutting tip holders (11) by friction caused by the pressure of the bracket (14). This way, for changing a worn cutting edge it is not necessary to unscrew completely the fastening screw (15) of the cutting tip, but a few unscrewing turns are enough for loosening the cutting tip and changing its position.

Fig.1



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EUROPEAN SEARCH REPORT

Application Number
EP 05 01 1420

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 908 296 C (EUGEN MOEGLING) 5 April 1954 (1954-04-05) * page 2, line 29 - line 59; figures 1-5 * -----	1-3	B23D57/02 B28D1/08 B27B17/12 B23D59/04
X	DE 31 37 894 A1 (SANDVIK AB) 9 June 1982 (1982-06-09) * page 5, paragraphs 3,4; figures 1-4 * -----	1,2	B28D1/12
X	US 2 748 810 A (STRUNK LEONARD M) 5 June 1956 (1956-06-05) * column 3, line 31 - column 4, line 55; figures 7-10 * -----	1,2	

TECHNICAL FIELDS SEARCHED (IPC)

B23D
B28D
B27B

~~The present search report has been drawn up for all claims~~

Place of search	Date of completion of the search	Examiner
Munich	2 September 2005	Frisch, U

CATEGORY OF CITED DOCUMENTS

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

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

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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:

1-3

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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: 1-3

A chain cutting saw with lubrication means

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2. claims: 4-7

A chain cutting saw wherein the cutting tips are connected to the holders by brackets

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 05 01 1420

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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02-09-2005

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82