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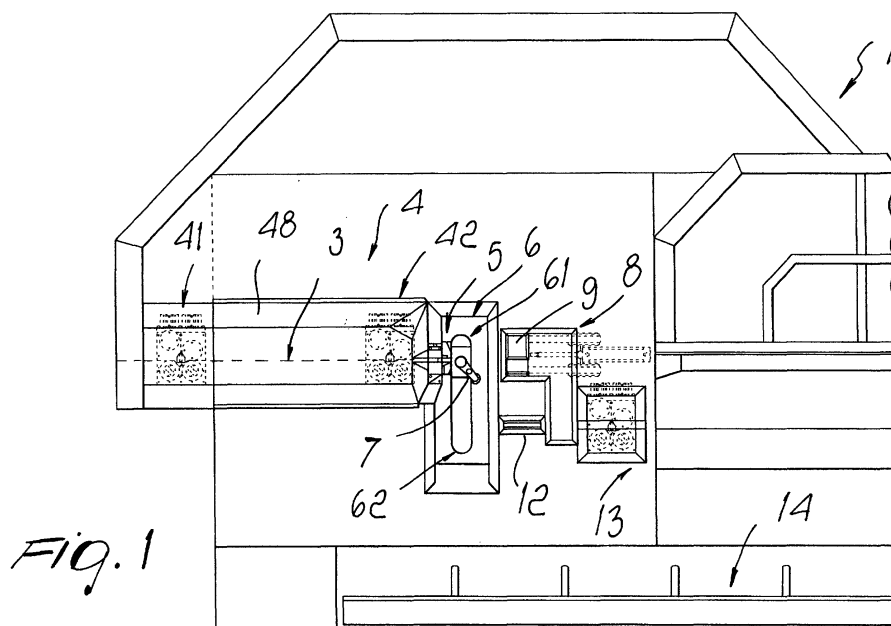
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(54) **Method for bending metal profiles in bar form and machine for performing the method**

(57) The method for bending metal profiles in bar form is performed in a machine comprising a line (3) for feeding the profiles in the form of bars to be bent, along which there are devices (4) for driving the bars, a cropping assembly (5) and at least one bending assembly (6). The method entails: processing the end portion of the bars by performing the advancement of the end portion of the bars by virtue of the driving devices (4); and

stopping the end portion of the bars in a preset position. The end portion of the bars is gripped by virtue of an extraction assembly (8) provided with a clamp-type grip device (9) suitable to be actuated with a reciprocating motion. The end portion of the bars is then subjected to a translational motion, for an advancement stroke of controlled extent, to complete the dimensions of the shaped articles to be provided, then the shaped articles are cropped to size.



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EUROPEAN SEARCH REPORT

Application Number
EP 02 00 7704

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)
X	EP 0 538 595 A (PIEGATRICI MACCH ELETTR) 28 April 1993 (1993-04-28) * column 4 - column 5 * ---	1,3,7	B21D11/12
X	FR 2 704 784 A (PROGRESS AG) 10 November 1994 (1994-11-10) * page 4 - page 6 * ---	1,3	
X	EP 0 537 496 A (PIEGATRICI MACCH ELETTR) 21 April 1993 (1993-04-21) * column 3, line 34 - column 4 * -----	1,3	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B21D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 May 2003	Examiner Gerard, O
<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>			

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

EP 02 00 7704

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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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0538595	A	28-04-1993	IT 1252984 B	10-07-1995
			AT 122940 T	15-06-1995
			CA 2080881 A1	22-04-1993
			DE 69202679 D1	29-06-1995
			DE 69202679 T2	25-01-1996
			DK 538595 T3	24-07-1995
			EP 0538595 A1	28-04-1993
			ES 2072674 T3	16-07-1995
			JP 3263149 B2	04-03-2002
			JP 5208220 A	20-08-1993
			US 5285671 A	15-02-1994
FR 2704784	A	10-11-1994	AT 401360 B	26-08-1996
			AT 90093 A	15-01-1996
			DE 9406880 U1	07-07-1994
			FR 2704784 A3	10-11-1994
EP 0537496	A	21-04-1993	IT 1252962 B	07-07-1995
			CA 2080032 A1	16-04-1993
			EP 0537496 A1	21-04-1993