(11) **EP 1 844 872 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **14.05.2008 Bulletin 2008/20**

(51) Int Cl.: **B21D 43/00** (2006.01)

B21D 11/12 (2006.01)

(43) Date of publication A2: 17.10.2007 Bulletin 2007/42

(21) Application number: 07105818.4

(22) Date of filing: 06.04.2007

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated Extension States:

AL BA HR MK RS

(30) Priority: 13.04.2006 IT UD20060097

(71) Applicant: M.E.P. Macchine Elettroniche Piegatrici S.p.A.
33010 Reana del Rojale (UD) (IT)

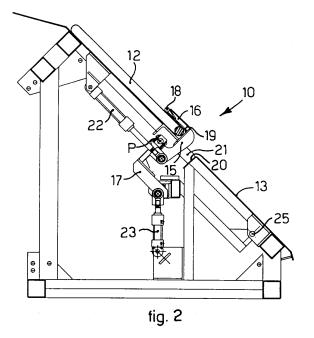
(72) Inventor: **Del Fabro**, **Giorgio** 33100, **Udine** (IT)

(74) Representative: Petraz, Gilberto Luigi et al GLP S.r.l.
Piazzale Cavedalis 6/2
33100 Udine (IT)

(54) Positioning and protection device for bending machines

(57) Positioning and protection device (10) for a bending machine (11), provided at least with a work plane (13) on which one or more metal bars (12) to be shaped are disposed and made to advance. The device (10) comprises at least a covering element (15, 16) having at least a first, operating position in which it extends longitudinally for a substantial part above the work plane (13) of the

bending machine (11) and defines at least with the work plane (13) a sliding channel for the metal bars (12). The covering element (15, 16) is associated with movement means (22) able to move it selectively between the first, operating position and a second, discharge position, in which it lowers completely below, or at most flush with, the work plane (13), leaving it completely free.



EP 1 844 872 A3



EUROPEAN SEARCH REPORT

Application Number EP 07 10 5818

	Citation of document with indica	t CLASSIFICATION OF THE			
Category	of relevant passages		Relevan to claim	APPLICATION (IPC)	
X,D	EP 1 529 573 A (OSCAM 11 May 2005 (2005-05-3		1-6, 8-10, 12-14	INV. B21D43/00 B21D11/12	
	* the whole document	k 			
Х	EP 0 592 798 A (PIEGATION 1994 (1994) 20 April 1994 (1994) 4 figures 1,2,5a,5c **		1,2,4, 12-14	7,	
Х	US 5 394 725 A (LISEC 7 March 1995 (1995-03-* figures 1-3 *		1,8-10		
Х	EP 0 379 043 A (PIEGA [IT]) 25 July 1990 (19 * figures 1a,1b,2 *	TRICI MACCH ELETTR 990-07-25)	1-4,8, 12-14	9,	
Х	CH 665 789 A5 (LNS VER 15 June 1988 (1988-06- * page 3, column 1, 1- column 2, line 5; figu	-15) ine 52 - page 3,	1-5, 12-14	TECHNICAL FIELDS SEARCHED (IPC)	
Х	GB 873 341 A (MINING R 26 July 1961 (1961-07- * figures 3-6 *	ENGINEERING CO LTD) -26)	1,2,4,	B21D B21F B23Q B23B	
А	EP 0 419 441 A (EVG ENVERWERTUNGS- GESELLSCH 27 March 1991 (1991-03 * the whole document *)	HAFT M.B.H) 3-27)	1-14	5255	
A	EP 1 366 833 A (BURR (COMPANY, INC) 3 December				
А	AT 394 958 B (EVG ENTW VERWERTUNGS-GES.M.B.H) 10 August 1992 (1992-0				
	The present search report has been	•		Examiner	
		Date of completion of the search 8 April 2008	·		
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background	T : theory or princip E : earlier patent di after the filing di D : document cited L : document cited	le underlying the cument, but put gate in the application for other reason	ne invention ublished on, or on	
O : non	-written disclosure mediate document			mily, corresponding	

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

EP 07 10 5818

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-04-2008

Patent document cited in search report		Publication date		Patent family member(s)	Publicatio date
EP 1529573	A	11-05-2005	NONE		
EP 0592798	А	20-04-1994	AT CA DE DK ES GR IL JP	154264 T 2105794 A1 69311491 D1 69311491 T2 592798 T3 2103404 T3 3023796 T3 106954 A 6198346 A 5375447 A	15-06-1 16-03-1 17-07-1 05-02-1 07-07-1 16-09-1 30-09-1 10-06-1 19-07-1 27-12-1
US 5394725	Α	07-03-1995	AT DE DE DE EP ES	146388 T 4323820 A1 9310604 U1 59304791 D1 0579593 A1 2096268 T3	15-01-1 20-01-1 07-10-1 30-01-1 19-01-1 01-03-1
EP 0379043	A	25-07-1990	CA DE DK ES IT JP US	2007984 A1 69002243 D1 69002243 T2 379043 T3 2043119 T3 1235177 B 2229623 A 2801332 B2 4993253 A	18-07-1 26-08-1 23-12-1 23-08-1 16-12-1 23-06-1 12-09-1 21-09-1
CH 665789	A5	15-06-1988	NONE		
GB 873341	Α	26-07-1961	NONE		
EP 0419441	A	27-03-1991	WO AT AU CA DE GR JP PT US	9104113 A1 121324 T 6055590 A 2042021 A1 59008926 D1 91300061 T1 4501825 T 95366 A 5182932 A	04-04-1 15-05-1 18-04-1 21-03-1 24-05-1 15-11-1 02-04-1 29-05-1 02-02-1
		03-12-2003	NONE		

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

EP 07 10 5818

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-04-2008

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
AT 394958	В	10-08-1992	AT	27990 A	15-01-199
more details about this anne					