

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 0 938 939 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **24.01.2001 Bulletin 2001/04**

(51) Int. CI.7: **B21D 43/11**, B21D 43/02

(43) Date of publication A2: 01.09.1999 Bulletin 1999/35

(21) Application number: 99100700.6

(22) Date of filing: 15.01.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 30.01.1998 IT VE980006

(71) Applicant: DALLAN S.R.L. 31033 Castelfranco Veneto (IT)

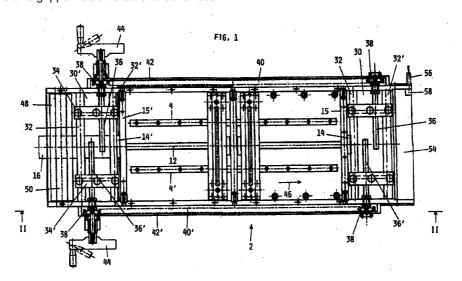
(72) Inventor: Dallan, Sergio
31033 Castelfranco Veneto (IT)

(74) Representative: Piovesana, Paolo Corso del Popolo, 70 30172 Venezia-Mestre (IT)

(54) Improved metal strip feeder

(57) An improved metal strip (28) feeder, of the type comprising a pair of grippers (18,18'), each formed form a pair of jaws (20,20') positioned transversely to the longitudinal axis of the feeder and extending substantially along the entire width of this latter, said grippers being operated in a mutually synchronized manner in the sense that while one gripper is activated and advances

towards the machine to be fed, the other gripper is deactivated and moves in the opposite direction, characterised in that at least one of the two jaws (20,20') of each gripper comprises a plurality of appendices (24) positioned along the entire jaw and projecting from its gripping surface to an adjustable extent.





EUROPEAN SEARCH REPORT

Application Number EP 99 10 0700

Category	Citation of document with in of relevant passa	dication, where appropriate,	Relevant	CLASSIFICATION OF THE APPLICATION (Int.CI.6)	
D,Y	EP 0 737 115 B (DALC 1 October 1997 (1997 * the whole document	COS S R L) 7-10-01)	to claim	B21D43/11 B21D43/02	
Y	EP 0 015 358 A (VOES 17 September 1980 (1 * page 5, line 25 - * page 8, line 4 - 1	1-3			
A	US 4 255 999 A (DAV) 17 March 1981 (1981- * column 2, line 45 1,4,5 *	-03-17)	5-7		
A	US 4 567 799 A (MATS 4 February 1986 (198 * column 2, line 64 figures 3,4 *	36-02-04)	6,7		
A	EP 0 284 217 A (BARNES AUSTEN BERNARD) 28 September 1988 (1988-09-28) * column 3, line 44 - line 49 * * column 13, line 44 - line 50 * * figure 1 *		11,12	TECHNICAL FIELDS SEARCHED (Int.CI.6)	
A	DE 461 896 C (C. GRO 7 June 1928 (1928-06 * page 1, line 66 -	5-07)	11,12		
	The present search report has b				
Place of search MUNICH		Date of completion of the search 30 November 2000 Rit		ter, F	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with ano document of the same category A: technological background O: non-written disclosure P: Intermediate document		T: theory or princi E: earlier patent d after the filing d er D: document cited L: document cited &: member of the	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filting date D: document cited in the application L: document cited for other reasons 8: member of the same patent family, corresponding document		

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

EP 99 10 0700

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.

30-11-2000

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
EP	0737115	В	16-10-1996	IT AU DE DE EP GR PL RU SI SK US AT CA CZ DK	1266010 B 7491194 A 69406018 D 69406018 T 0737115 A 3025743 T 174599 B 2108886 C 737115 T 77696 A 5909835 A 158730 T 2180179 A 9601526 A 737115 T	16-12-199 17-07-199 06-11-199 19-02-199 16-10-199 31-03-199 20-04-199 28-02-199 04-06-199 08-06-199 15-10-199 06-07-199 12-03-199
EP	0015358	Α	17-09-1980	ES AT AT DE	2109721 T 	16-01-199 25-08-198 15-01-198 25-11-198
US	4255999	A	17-03-1981	CA US	1116474 A 4318320 A	19-01-198 09-03-198
US	4567799	Α	04-02-1986	DE GB	3538889 A 2183605 A,B	07-05-198 10-06-198
EP	0284217	Α	28-09-1988	US JP	4837656 A 63303630 A	06-06-198 12-12-198
חם.	461896	С		NONE		

FORM P0459

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