(11) **EP 1 327 488 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 19.11.2003 Bulletin 2003/47

(51) Int CI.⁷: **B21C 3/04**, B21C 3/12, B21C 3/14

- (43) Date of publication A2: **16.07.2003 Bulletin 2003/29**
- (21) Application number: 02026780.3
- (22) Date of filing: 02.12.2002
- (84) Designated Contracting States:

 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 IE IT LI LU MC NL PT SE SI SK TR
 Designated Extension States:

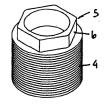
 AL LT LV MK RO
- (30) Priority: 10.01.2002 IT MI20020035
- (71) Applicant: Tecnovo S.R.L. 20122 Milano (IT)

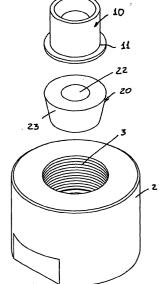
- (72) Inventor: Bellina, Ferruccio 20122 Milano (IT)
- (74) Representative: Cicogna, Franco Ufficio Internazionale Brevetti Dott.Prof. Franco Cicogna Via Visconti di Modrone, 14/A 20122 Milano (IT)

(54) Drawing die for drawing iron and steel rods

(57) The present invention relates to a drawing die (1) for drawing iron and steel rods having a comparatively large diameter, which comprises a framework body (2), defining a throughgoing opening, housing an upper inlet element (5) and a drawing core (20), which are axially aligned.

The main feature of the invention is that the die (1) further comprises a lower outlet element (30), which can be removably coupled to the framework body (2) and axially engaged with the drawing core (20).









EUROPEAN SEARCH REPORT

Application Number

EP 02 02 6780

Category	Citation of document with indication	Relevant	CLASSIFICATION OF THE			
Jalegory	of relevant passages		to claim	APPLICATION (Int.CI.7)		
X	DE 29 34 222 A (VEREIN	DT	1,6	B21C3/04		
	EISENHUETTENLEUTE)	10)		B21C3/12		
	12 March 1981 (1981-03- * page 6, paragraph 3;			B21C3/14		
X	GB 2 077 647 A (URALSKY		1,2,6			
A	METALL) 23 December 198 * figure 1 *	1 (1981-12-23)	4			
`			7			
×	GB 382 821 A (BRITISH T		1,6			
۸	LTD) 3 November 1932 (19 * figure 1 *	932-11-03)	4			
`						
A	PATENT ABSTRACTS OF JAPA		3			
	vol. 0151, no. 17 (M-10920 March 1991 (1991-03-2	95), 20)	1			
	& JP 3 008519 A (M H CEI	NTÉR:KK),				
	16 January 1991 (1991-0)	1-16)				
	* abstract *					
				TECHNICAL FIELDS SEARCHED (Int.CI.7)		
				B21C		
]			
	The present search report has been dra	awn up for all claims				
	Place of search	Date of completion of the search		Examiner		
	Munich	25 September 200	3 Rit	ter, F.		
CA	TEGORY OF CITED DOCUMENTS	T: theory or principle	underlying the i	nvention		
X : particularly relevant if taken alone		E : earlier patent doc after the filing date	•			
docu	cularly relevant if combined with another ment of the same category	L : document cited fo	D : document cited in the application L : document cited for other reasons			
A : technological background O : non-written disclosure P : intermediate document			& : member of the same patent family, corresponding			

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

EP 02 02 6780

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.

25-09-2003

F cite	Patent document ed in search report		Publication date		Patent family member(s)	Publication date
DE	2934222	A	12-03-1981	DE	2934222 A1	12-03-198
GB	2077647	Α	23-12-1981	NONE		
GB	382821	Α	03-11-1932	NONE		
JP	3008519	Α	16-01-1991	NONE		
			ficial Journal of the Euro			