



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 998 996 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
18.04.2001 Bulletin 2001/16

(51) Int Cl.7: **B21D 11/14**

(43) Date of publication A2:
10.05.2000 Bulletin 2000/19

(21) Application number: **99307775.9**

(22) Date of filing: **01.10.1999**

(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

(72) Inventor: **Wood, Ian
Beverley, East Yorkshire HU17 7JU (GB)**

(74) Representative: **Walker, Antony James Alexander
W.P. Thomson & Co.,
Kings Building,
South Church Side
Hull, HU1 1RR (GB)**

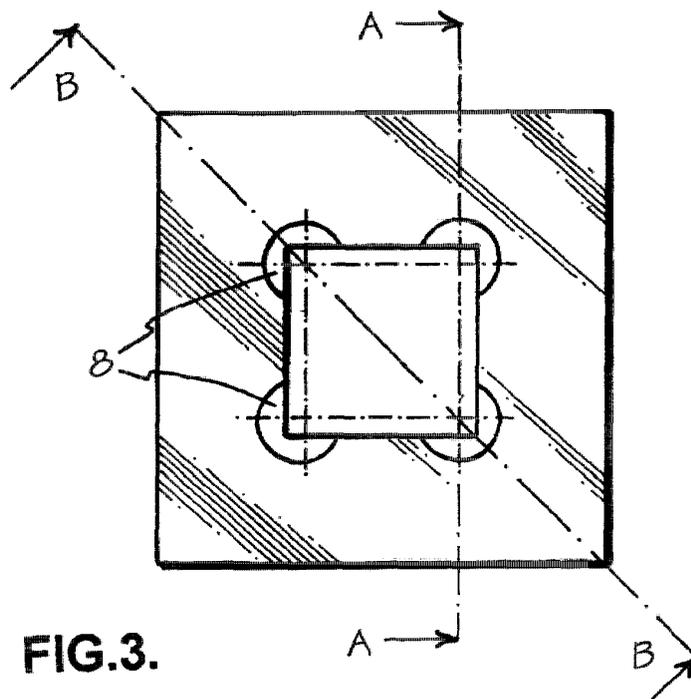
(30) Priority: **01.10.1998 GB 9821260**

(71) Applicant: **Ian Wood & Barry Wood Trading In
Partnership As J.&C.R. Wood
Hull, East Yorkshire HU5 1SR (GB)**

(54) **A method apparatus for use in forming articles from rods or bars of metal**

(57) A method of forming a basket shaped article from a plurality of metal bars secured together in a parallel relationship comprises securing one end of the said plurality of metal bars in a fixed gripper ring and securing

the other end in a rotatable gripper ring. The rotatable gripper ring is rotated in one direction to impart a twist to the bars. It is then rotated the opposite direction to partially untwist the bars. The initial twist is greater than 360°.



EP 0 998 996 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 30 7775

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	FR 2 401 715 A (THOMAN FRANZ) 30 March 1979 (1979-03-30)	1,2	B21D11/14
A	* page 6, line 32 - page 7, line 22; figures 4-9 *	3	
X	US 5 676 013 A (KAHLAU BERNHARD K) 14 October 1997 (1997-10-14)	1,2	
A	* column 6, line 44 - column 6, line 52; figures 4A,4B,4C *	3	
A	DE 16 27 581 A (PLATZEN, ELMAR) 27 August 1970 (1970-08-27)	1,3	
A	WO 97 18908 A (BEECHER ROY ;BEECHER MAUREEN (GB)) 29 May 1997 (1997-05-29) * figures 1-6 *	1,3	
A	PATENT ABSTRACTS OF JAPAN vol. 008, no. 040 (M-278), 21 February 1984 (1984-02-21) & JP 58 196123 A (SEKISUI HOUSE KK), 15 November 1983 (1983-11-15) * abstract; figures 1-5 *	3	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B21D
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 20 February 2001	Examiner Vinci, V
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03/82 (Pac001)

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

EP 99 30 7775

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.

20-02-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2401715 A	30-03-1979	DE 2739732 A AT 358362 B AT 605178 A	08-03-1979 10-09-1980 15-01-1980
US 5676013 A	14-10-1997	NONE	
DE 1627581 A	27-08-1970	NONE	
WO 9718908 A	29-05-1997	EP 0861132 A US 6009738 A	02-09-1998 04-01-2000
JP 58196123 A	15-11-1983	NONE	

EPO FORM P0459

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