11 Publication number:

0 251 796 A3

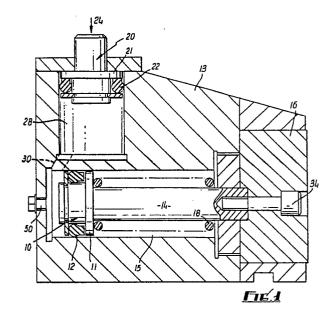
(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 87305861.4

(51) Int. Cl.4: **B21D** 28/32

- 2 Date of filing: 02.07.87
- 3 Priority: 27.06.86 GB 8615709
- 43 Date of publication of application: 07.01.88 Bulletin 88/01
- Ø Designated Contracting States:
 BE DE ES FR GB IT NL SE
- Date of deferred publication of the search report: 30.11.88 Bulletin 88/48
- 71) Applicant: Linval, Rodney c/o Geomatric Precision Limited Unit 60, Block 8 Farmway Old Mill Lane Estate Mansfield Woodhouse Nottinghamshire(GB)
- Inventor: Linval, Rodney c/o Geomatric Precision Limited Unit 60, Block 8 Farmway Old Mill Lane Estate Mansfield Woodhouse Nottinghamshire(GB)
- Representative: Campbell, lain Angus et al Swindell & Pearson 48 Friar Gate Derby DE1 1GY(GB)
- Improvements in or relating to punches and presses.
- The press approximate the first piston arrangement (10, 20), the axes of the cylinders being arranged at an angle with the second piston arrangement (20) in the path of travel of the movable member of the press tool whereby when the tool closes the second piston arrangement is moved into its cylinder causing corresponding outwards movement of the first piston arrangement to operate, for example, a punch piercing the workpiece in the tool in a direction which an angularly disposed with respect to the direction of movement of the movable member.



EP 0 251 796 A3



EUROPEAN SEARCH REPORT

EP 87 30 5861

					l _m l	0/ 30 300
	DOCUMENTS CONSI	DERED TO BE	RELEVANT		•	
Category	Citation of document with indication, where appropriate of relevant passages		priate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)	
Х	FR-A-2 348 051 (POI * Page 2, lines 23-3 figures *			,3-8	B 21 D	28/32
X	PATENT ABSTRACTS OF 168 (M-396)[1891], JP-A-60 40 621 (NIS: 04-03-1985 * Abstract *	13th July 198	5; &	-8		·
Α	US-A-2 112 153 (GO	RHAM)	9			
A	DE-A-1 919 095 (GÜ	NTHER)				
:						
					TECHNICAI SEARCHED	(Int. Cl.4)
					B 21 D B 30 B	
I						
The present search report has been drawn up for all claims						
1		letion of the search	Examiner			
THE HAGUE 19-09-		1988	PEETERS L.			
THE HAGUE CATEGORY OF CITED DOCUMENTS 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		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				