

11 Publication number:

0 119 007

A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 84300814.5

(51) Int. Cl.3: **B** 21 J 15/04

22 Date of filing: 09.02.84

(30) Priority: 10.02.83 GB 8303633

(43) Date of publication of application: 19.09.84 Bulletin 84/38

88) Date of deferred publication of search report: 05.12.84

84 Designated Contracting States: DE FR GB IT SE 71) Applicant: ARMSTRONG FASTENINGS LIMITED Clough Road Hull North Humberside, HU6 7PR(GB)

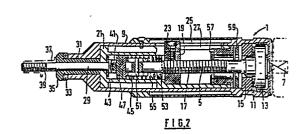
(72) Inventor: Stephens, Ronald Bertram 169 Sigston Road Beverley North Humberside(GB)

(74) Representative: Stringer, David Hiram et al,
W.P. THOMPSON & CO Coopers Building Church Street
Liverpool L1 3AB(GB)

54 Apparatus for installing rivet nuts.

(5) Apparatus for installing rivet nuts comprises a body (9) having therein a spindle (5) which is drivable in the forward and reverse directions and a threaded mandrel (29) for receiving the rivet nut, and an anvil (35) against which the rivet nut abuts.

In order to avoid damaging of the rivet nut when crimping it in position, a clutch (45, 47) is disposed between the spindle and threaded mandrel to prevent rotation of the latter when a predetermined torque is reached. The mandrel is engaged by a pull sleeve (21) and an axial load is applied to the mandrel and hence to the rivet nut by way of a pull nut (19) which is received threadingly on the spindle and which co-operates with the pull sleeve (21).





EUROPEAN SEARCH REPORT

EP 84 30 0814

Category	Citation of document with	CONSIDERED TO BE RELEVAN ment with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)		
Y	EP-A-0 043 217 (* Claim 1, figure			,3-5	B 21	J 15/04	
Y	US-A-4 063 443 * Figure 2, positumn 6, lines 27-3	tions 27,34, co		,3-5			
A	US-A-4 074 554		1 8	,4,5,			
	* Figure 1; colu	mns 3-6 *					
A	US-A-4 321 814	(MARTIN)					
A	US-A-2 753 072	- (MITCHELL)			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)		
						J 15/00 B 27/00	
			-				
	The present search report has b		şearch	T	Examin	er	
	Place of search BERLIN	Date of completion of the 14-08-198		·	AITZ J		
Y:	CATEGORY OF CITED DOCL particularly relevant if taken alone particularly relevant if combined w document of the same category technological background non-written disclosure				rlying the invertible, but published pplication in reasons tent family, co		