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EUROPEAN PATENT APPLICATION

21 Application number: **88312087.5**

51 Int. Cl.⁴: **B 21 J 15/04**
B 21 J 15/24

22 Date of filing: **21.12.88**

30 Priority: **30.12.87 US 139356**

43 Date of publication of application:
05.07.89 Bulletin 89/27

84 Designated Contracting States: **DE ES FR GB**

88 Date of deferred publication of search report:
06.12.89 Bulletin 89/49

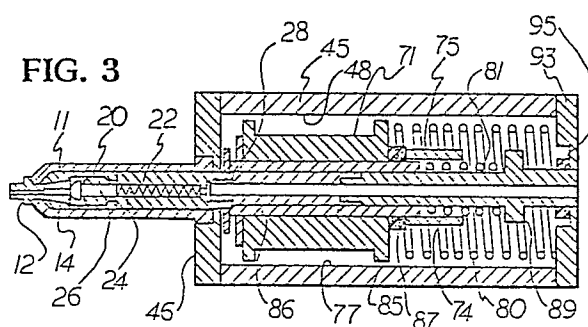
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54 Solenoid powered riveting tool.

57 A solenoid (34,71) actuated blind rivet tool having pulling impulse intensifying means co-acting with the mandrel pulling mechanism (14,20,22,86). One type of impulse intensifying means is a slideable connection of the tool's nose housing (11), housing the assembly for engaging and tensioning the mandrel, and power chamber (36) which comprises the remainder of the tool housing, which power chamber carries a solenoid (34) for powering the tool. The solenoid pulls the nose housing (11) rearwardly until it impacts against the power chamber (55), creating a high-magnitude impulse force to break the mandrel. In lieu of a slideably mounted nosepiece (11), the tool may include a member (86) linked to the pulling mechanism (14,20,22) and a ram (75) which is driven against the member by the solenoid (71) thereby creating an impulse force which is transmitted to the pulling mechanism.





EP 88 31 2087

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. 4)
D,A	EP-A-0 130 040 (TUCKER FASTENERS LTD.) * claim 1 * ---	1	B 21 J 15/04 B 21 J 15/24
D,A	US-A-3 646 791 (B. P. LEFTHERIS) * claim 1 * ---	1	
D,A	US-A-3 095 106 (R. A. MORRISON) * figure 3, positiones 14,16 * ---	1	
D,A	US-A-3 254 522 (R. M. ELLIOTT et al.) * figure 1; claim 1 * ---	1	
X	DE-U-8 613 823 (MUELLER GMBH & CO.) * figures 1,8; claims 1-3,5 * -----	1,2,5,7	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			B 21 J 15/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 05-09-1989	Examiner SCHLAITZ J
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	