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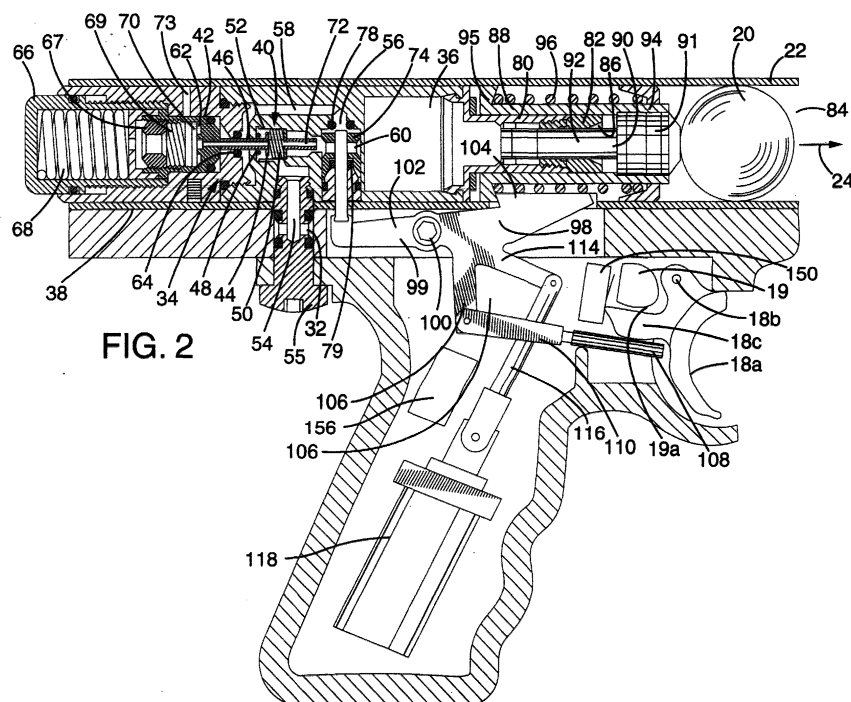
(30) Priority: **11.10.2000 US 686665**

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(54) **Electronically actuated trigger mechanism for compressed gas powered weapons or the like**

(57) A compressed gas powered gun (10) includes an electronic actuator (114, 116, 118, 156) to achieve greater efficiency in the operation of the gun. The electronic actuator is operative to control movement of a bolt assembly (88) between a sealing position in which it seals a firing chamber (36) for compressed gas, and an

unsealing position in which the gas in the firing chamber (36) is released to launch a projectile from the gun. The electronic actuator may also move a flow valve (74) controlling communication between the firing chamber (36) and a source of compressed gas. The gun is operable in either a manually operating mode or an electronically operating mode.





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# EUROPEAN SEARCH REPORT

Application Number  
EP 01 30 7527

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)
D,A	US 6 024 077 A (KOTSIPOULOS THOMAS G) 15 February 2000 (2000-02-15) * the whole document *	1	F41B11/32 F41B11/00 F41A19/69 F41A19/16
A	GB 2 345 953 A (NPF LIMITED) 26 July 2000 (2000-07-26) * the whole document *	1-7,9, 10,13,14	
A	US 6 062 208 A (AMODREA JOHN M ET AL) 16 May 2000 (2000-05-16) * the whole document *	1-7,9, 10,13,14	
A	GB 2 342 710 A (NPF LIMITED) 19 April 2000 (2000-04-19) * the whole document *	1-7,9, 10,13,14	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F41B F41A
<del>The present search report has been drawn up for all claims</del>			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>17 September 2002</b>	Examiner <b>VAN DER PLAS J.</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)



European Patent  
Office

Application Number  
EP 01 30 7527

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-14



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**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 01 30 7527

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-14

Air gun provided with a microprocessor for controlling the operation of the gun

2. Claims: 15-19

Trigger mechanism for a gun with adjustable trigger pull

3. Claim : 20

Trigger mechanism using a Hall switch as the firing switch

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

EP 01 30 7527

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  
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17-09-2002

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