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(54) **Phased perforating guns**

(57) A perforating gun having a base structure (108) made of a deformable material. The base structure includes support rings (114) integrally attached to one another by connector portions. The capsule charges (110)

are mounted in corresponding support rings, and each support ring is adjustable by selective deformation of the base structure to face in one of a plurality of directions to provide a plurality of combinations of phasing patterns.

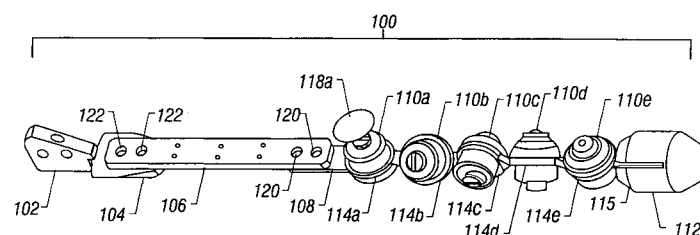


FIGURE 8A



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EUROPEAN SEARCH REPORT

Application Number
EP 98 40 0998

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			E21B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 July 1999	Examiner Garrido Garcia, M
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	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 98 40 0998

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The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82